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OCEAN WEATHER STATION 'P' NORTH PACIFIC OCEAN

March 3 to June 2, 1966

CODC References: 02-66-002
02-66-003

No. 11-13

1966 Data Record Series

Canadian Oceanographic Data Centre
615 Booth St., Ottawa, Canada

Programmed by the Canadian Committee on Oceanography

OCEAN WEATHER STATION
NORTH PACIFIC OCEAN

March 5 to June 2, 1968



Canadian Oceanographic Data Centre
815 East St., Ottawa, Canada

Prepared by the Marine Committee on Research

FISHERIES RESEARCH BOARD OF CANADA

Océan Weather Station "P" North Pacific Ocean

Ships:	CCGS "St. Catharines:	CCGS "Stonetown"
Local cruise designations:	P-66-1	Patrol No. 69
Cruise periods:	March 3 - April 20, 1966	April 16 - June 2, 1966
Observers:	J. Wong	
	R. Bigham	

PACIFIC OCEANOGRAPHIC GROUP - Nanaimo, B. C.

SECTION I

Description of data collection procedures



Figure 1.

The Canadian Weather Ship C.C.G.S. " St. Catharines " . (D.O.T. Photo)

The oceanographic winch is located on the starboard side of the signal deck, just aft of the bridge wing.



Figure 2.

The Canadian Weather Ship C.C.G.S. "Stonetown".

(D.O.T. Photo)

Bathythermograph soundings boom can be seen below the bridge on the signal deck.

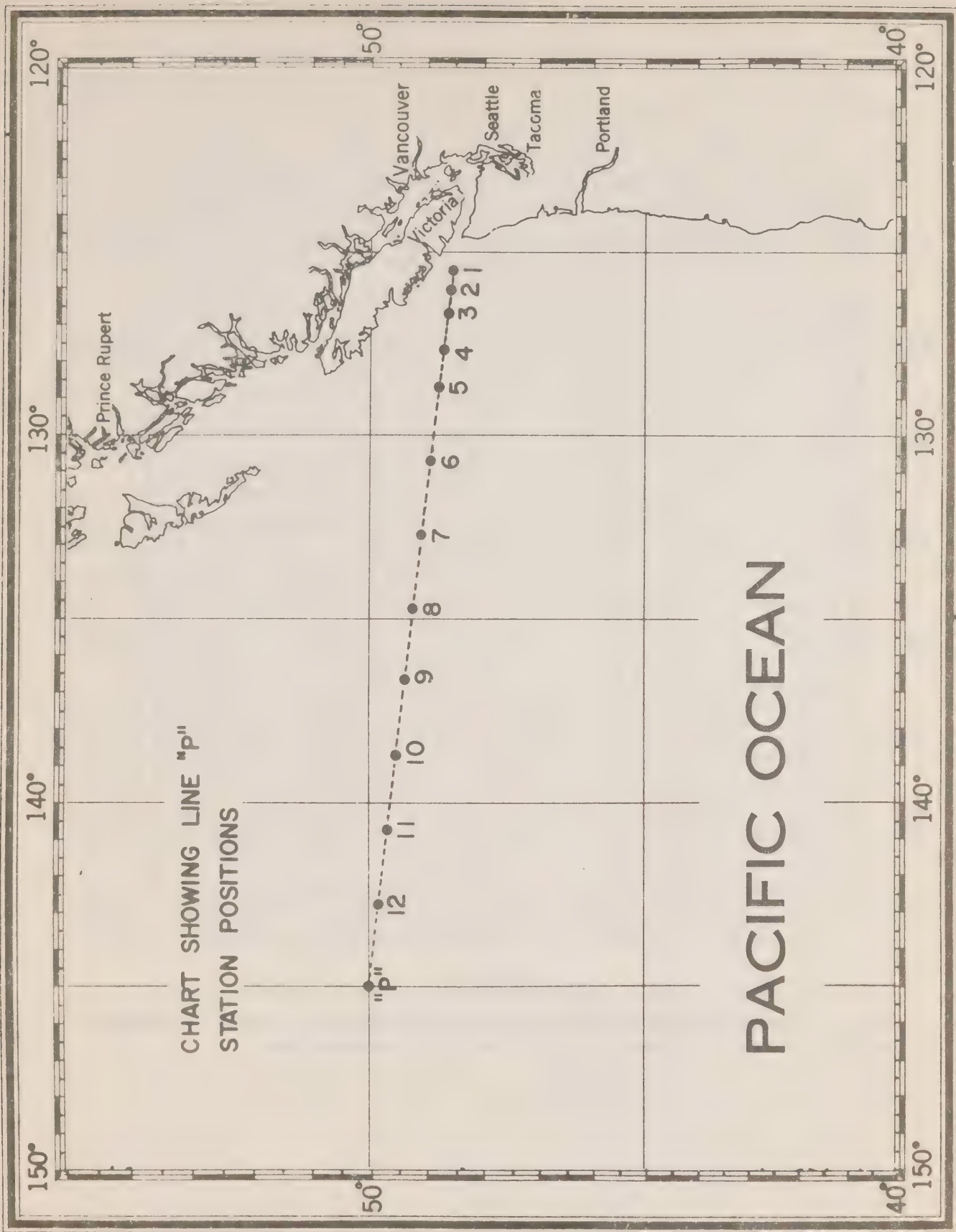


Figure 3.

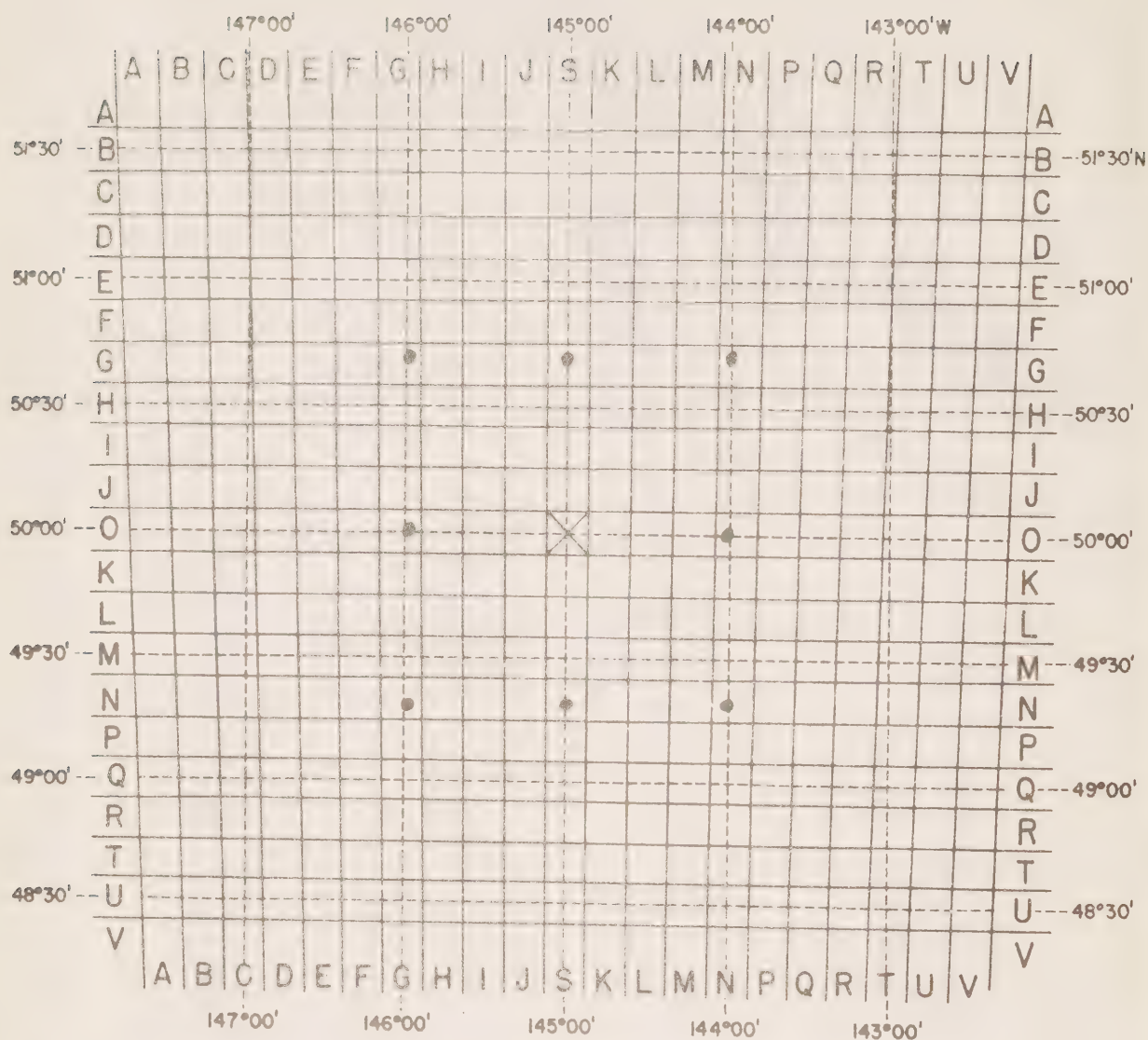


Figure 4

Position indicating grid for Ocean Weather Station "P", with a mercator projection of a latitude and longitude grid superimposed.

INTRODUCTION

Canadian operation of Ocean Weather Station "P" (latitude 50°00'N, longitude 145°00'W) was inaugurated in December 1950. The Station is manned by two vessels of the Canadian naval frigate class operated by the Marine Services of the Department of Transport. They are the CCGS "St. Catharines" and the CCGS "Stonetown" (Fig. 1 and 2) (Atlantic Oceanographic Group, MS, 1961). Each ship remains on Station for a period of 6 weeks, and is then relieved by the alternate ship, thus maintaining a continuous watch. The chief purpose of the Station is to operate as a meteorological station for surface and upper-air observations, and as an air-sea rescue station.

The CCGS "St. Catharines" is equipped with deck and laboratory facilities required to make bathythermograph and oceanographic observations. Oceanographers from the Pacific Oceanographic Group accompany the ship on each patrol. The CCGS "Stonetown" is equipped with bathythermograph equipment only. The BT observations on both ships are made by members of the ship's crew.

Bathythermograph observations have been made at Station "P" since July 1952. A program of oceanographic observations was commenced in August 1956, and it has been increased and altered to suit the requirements for new and additional information. A series of 12 oceanographic stations is observed along the route between Station "P" and Swiftsure Bank (Fig. 3) during the trips to and from the Station. Bathythermograph observations are made at intervals of 40 minutes of longitude along this route by both ships, when weather and time schedule permit.

At Station "P", a bathythermograph cast to 275 m is made at 3-hourly intervals throughout the patrol, coinciding with the regular meteorological observations. A surface salinity sample is obtained daily at 0000 G. M. T. These observations are made from both ships. On board the "St. Catharines", an oceanographic station to 400 m depth is observed once a week, and stations to 2000 m and 4200 m depths are observed three times each during the patrol. A new series of oceanographic stations was observed during surveys P-65-5 and P-66-1. At the beginning and end of each patrol, a series of 8 stations to 1500 m depth is observed at 40-mile intervals along a survey track which is 80 miles square, centered on the OS grid square. The stations are identified in the data record by the grid letter designator group in the STN entry of the master heading section.

In addition to the oceanographic observations, daily and weekly series of plankton collections and ocean productivity observations are made.

CRUISE LOG, CCGS "ST. CATHARINES", SURVEY P-66-1

March 4 departed from Esquimalt, B. C. ; observed 3 stations enroute to Station "P".

March 6: rendezvous with CCGS "Stonetown".

March 7: commenced series of oceanographic stations on the 80-mile square.

April 18. relieved by CCGS "Stonetown", and proceeded on return journey to base; 10 oceanographic stations observed enroute.

April 21: berthed at Esquimalt base.

OBSERVATIONAL PROCEDURES

1. Samples at depths were obtained with Nansen reversing water sample bottles. Stations to 400 m depth were observed in one cast; stations to 1500 and 2000 m were observed in two casts: 10 to 400 m, and 500 m to the deepest depth; stations to 4200 m were observed in 2 casts: 10 to 600 m, and 800 m to the deepest depth.

2. Seawater temperatures (except 0 m) were measured with protected reversing thermometers of German or Japanese manufacture. The arrangement of the thermometers on the water sample bottles was as follows: 10 to 125 m, 2 protected thermometers at each depth; 150 to 250 m, 3 protected thermometers at each depth; 300 m to deepest bottle, 2 protected and one unprotected thermometer at each depth.

3. Surface samples (0 m) for salinity and dissolved oxygen determinations were obtained in a one-gallon plastic bucket. The surface temperature was measured in this sample with an armoured thermometer graduated in 0.5°C intervals.

4. Water transparency observations were made with a white secchi disc of 30 cm diameter.

5. Station locations were determined by the officers of the watch, who also made the meteorological observations reported with the oceanographic data.

LABORATORY PROCEDURES

The salinity determinations of the oceanographic station samples and the surface samples collected during Survey P-66-1 were made with an inductive salinometer, Model 601 MK III, manufactured by Auto-Lab Industries Pty. Ltd., Sydney, Australia (Brown and Hamon, 1961). Most of the samples were analysed on board ship. The salinity data are the means of duplicate determinations whose "conductivity ratio" values fell within an acceptable range. The accuracy of the determinations at the 35‰ salinity level is stated to be $\pm 0.003\%$ (Brown and Hamon, 1961). The surface samples collected during the "Stonetown" Patrol No. 69 were analysed in the shore laboratory using the MK III conductivity salinometer. These data are from duplicate determinations and have an accuracy range of $\pm 0.004\%$ at the 95% probability level (Strickland, MS, 1958).

The dissolved oxygen analyses were done in the shipboard laboratory by a modified Winkler method (Strickland and Parsons, 1965). The data are the means of duplicate determinations.

BATHYTHERMOGRAPH OBSERVATIONS

The BT traces obtained during Survey P-66-1 and Patrol No. 69 were processed in the BT-aperture card format of the CODC (Sauer, 1964). The bathythermograms presented in Section IV of the data record were reproduced from these BT-aperture cards. The consecutive number entered below each bathythermogram refers to an entry in Table 1 which lists the information concerning time/date, position, and associated meteorological conditions.

For Patrol No. 69 when the BT observations were taken on main synoptic hours (00, 06, 12, 18) or intermediate synoptic hours (03, 09, 15, 21) the meteorological data have been transferred to the BT-aperture cards from the No. 9 Marine Data Cards, supplied by the Meteorological Branch of the Department of Transport, Toronto.

PERSONNEL

The oceanographer on board CCGS "St. Catharines" during Survey P-66-1 was Mr. J. Wong. He was assisted by Mr. R. Bigham. The officers and men of both weatherships made the BT observations, and the crew of the "St. Catharines" gave excellent assistance during the oceanographic observations.



INTRODUCTION

This section applies to the machine processing phase of the data reduction and computation.

The oceanographic data previously recorded on CODC data summary forms, a sample of which is shown on the next page, are transferred to punch-cards for subsequent electronic data processing on an IBM 1620 computer, using CODC's OCEANS II program. In addition to computing routine derived quantities, the program carries out unit and format conversions, range checks, plausibility tests, internal editing, and if required, interpolation at standard oceanographic depths. When interpolations are carried out, additional derived values are computed.

After the data have been processed, the data record is prepared using an IBM 1401 computer configuration with the OCEAN REPORT III program, which provides for pre-edited high speed print-out on continuous direct-image masters. These masters subsequently yield the required volume of copies for distribution.

Provision has been made to enter an "estimate of precision" for each observed variable selected for interpolation at standard oceanographic depths. The precision depends on the instrument and/or technique used to determine the variable. A standard precision stated as a **standard deviation** (σ) can be determined for each instrument or technique under routine field conditions by making duplicate determinations of the variables for a homogeneous sample of sea water. These standard deviations are given for each cruise under "GENERAL INFORMATION" in section III of the data record.

The measurement error estimate of a specific observation in this data record, is stated as a multiple of the standard deviation derived as above, and entered in a column immediately to the right of the reported variable. In order to distinguish it from an additional decimal digit, the measurement error estimate is recorded alphabetically, (i.e., $1\sigma = A$, $2\sigma = B$, etc.; in this data record "A" is suppressed).

An option is provided with respect to the measurement of the salinity variable. If observed to three decimal digits, the last digit takes the place of the measurement error estimate.

In the past, a number of methods for both manual and machine interpolation have been developed. Studies and comparisons of the several methods have shown that no single method is universally acceptable. The manual methods are the most elaborate and flexible, but often require subjective decisions. In machine interpolation, all the present methods fail to yield acceptable results under some circumstances. Hence, it is considered necessary to qualify interpolated values by stating an "interpolation error estimate" derived from the particular interpolation formula used. There are two purposes in stating the error estimates; first, to give an indication of the quality of the interpolated data; second, to allow the oceanographer to redesign his observational procedures in order to reduce interpolation errors in future observations.

The interpolation scheme chosen for the OCEANS II program consists of a combination of two 3-point interpolations using the Lagrangian interpolation polynomial, as recommended by Rattray (1962). A parabola is fitted through three values of a given variable (T , S , O_2) considered as a function of depth. The two interpolation parabolas require a total of four points (observed depths). The middle points are common to both parabolas. The average of the two values obtained from the parabolas at standard depth is taken as the interpolated value, and a function of their difference as an estimate of the interpolation error.

This function combined with the "measurement error estimate" comprises the "combined measurement and interpolation error estimate". It is expressed as a multiple of the standard deviation of measurement (σ) under normal routine field conditions by:

CANADIAN OCEANOGRAPHIC DATA CENTRE

1 IDENT. CODE		2 LATITUDE (N=+)		3 LONGITUDE (W=+)		5 DATE		6 TIME		7 DEPTH		9 NO.		VESSEL															
COUNTRY INST.		DEG. MIN. 1/10		DEG. MIN. 1/10		YEAR MONTH DAY		HOURS G.M.T. 1/10		TO BOTTOM		DEPTHS OBS'D.		ENTERED BY CHECKED BY															
1 8						19 20 21 22 23 24 25 26 27 28 29 30 31		34 35																					
10 WATER		11 WAVES I		12 WAVES II		13 WIND		14 BAROMETER		15 AIR TEMP.		16 WET BULB		17 W.W. CODE		18 CLOUD		19 H.W.		20 HOURS AFTER H.W.		21 UNASSIGNED		22 CRUISE REFERENCE NUMBER		23 CONSEC. NUMBER		24 OBS. NO.	
COLOUR TRANS.		DW DW PW HW		DW DW PW HW		DIR.				1/10		1/10		(SEPT. 62)														1	
36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80																													

OBSERVED CARD		6 TIME		7 DEPTH OF SAMPLE		8 TEMPERATURE		9 SALINITY		10 OXYGEN		13 PO ₄ - P		14 TOTAL - P		15 NO ₂ - N		16 NO ₃ - N		17 SiO ₂ - Si		18 p.H.		OBS. NO.			
HOURS G.M.T. 1/10		e		↓		e		↓		e		↓		↓		↓		↓		↓		↓		3			
1																								3			
2																								3			
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20																								3			
25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46																										80	

$$\frac{\sigma_i}{\sigma} = \left\{ \frac{(\Delta V_i)^2}{\sigma^2} + \sum_{n=j-2}^{j+1} (\gamma_n)^2 \left(\frac{\sigma_n}{\sigma} \right)^2 \right\}^{1/2}, \text{ where}$$

σ = Standard deviation of the combined error estimates at standard oceanographic depth,

ΔV_i = the interpolation error estimate of variable "V" at standard oceanographic depth = $^{1/3} (\bar{V}_{i_1} - V_{i_2})$

γ = Interpolation polynomial coefficient.

Z_j = Observed depth.

Z_i = Standard oceanographic depth, such that: $Z_{j-2} < Z_{j-1} < Z_i < Z_j < Z_{j+1}$

The integral part of the fraction $\frac{\sigma_i}{\sigma}$, if ≥ 2 , is reported in this Data Record following the interpolated variable. It represents the **combined measurement and interpolation error estimate**. In order to distinguish it from an additional decimal digit, it is recorded alphabetically (e.g.: 2 as "B", 3 as "C", etc.).

With respect to the interpolated value of the salinity variable if reported to three decimal digits, the **interpolation error estimate** is given only when $\frac{\sigma_i}{\sigma} \geq 2$ (the salinity is then recorded to two decimal places). If less than 2, the mean obtained from the two interpolation parabolas is reported to three decimal places.

EXPLANATION OF DATA RECORD HEADINGS

MASTER HEADINGS

(1) C-REF-NO	(6) YR	(11) DEPTH	(16) WAVES 1	(21) AIR T	(26) VIS
(2) CONS. NO	(7) MONTH	(12) MXSAMPD	(17) WAVES 2	(22) WET B	(27) STN
(3) LAT	(8) DAY	(13) NO. DPTH	(18) WND-DIR	(23) ww-CODE	
(4) LON	(9) HR	(14) W-COLOR	(19) WND-FCE	(24) CLD-TPE	
(5) MARSD SQ	(10) C/I	(15) W-TRNSP	(20) BARO	(25) CLD-AMT	(28) HW

(1) CRUISE REFER-
ENCE NUMBER:

Assigned by the Institute. Commences with 001 at the beginning of each year (effective Jan. 1, 1963). Prior to that date the CRN was a number designated by CODC.

(2) CONSECUTIVE
NUMBER:

Indicates the chronological order in which the stations were occupied.

(3) LATITUDE:

Indicate the position of the platform at the time of observation.

(4) LONGITUDE:

(5) MARSDEN SQUARE: Designates the geographic area code of the observation (see Marsden square chart),

(6) YEAR:

(7) MONTH:

(8) DAY:

(9) HOUR:

The time (Greenwich Mean Time) at which the surface environmental data were recorded. It is reported to tenths of hours (Table 1).
If an "X" precedes the value for HOUR, (prior to Jan. 1, 1963) it indicates that the reported time is doubtful.

(10) COUNTRY/
INSTITUTE:

The International Geophysical Year (IGY) Country Code/Institute Code - see Table 11.

(11) DEPTH:

The sounding reported in metres. If corrected, this is stated in the "GENERAL INFORMATION" chapter of section III. Charted depths are preceded by the letter "C".

(12) MAXIMUM

SAMPLING DEPTH: A code to indicate the deepest sampling depth (used for high speed sorting).

00 m - 50 m = 00

51 m - 150 m = 01

151 m - 250 m = 02

etc.

- (13) NUMBER OF DEPTHS: The number of levels observed (this is entered to initiate a computer safety check, guarding against the loss of punch-cards).
- (14) WATER COLOUR: A code based on the percentage of yellow (see table 2 and Note under FIELD "15" below).
- (15) WATER TRANSPARENCY: The depth in metres at which a Secchi disc (white disc, 30 cm. in diameter) just disappears from view, or the optical density expressed in percentage;
- NOTE: The "GENERAL INFORMATION" chapter in section III of the data record will state which method was used.
- (16) WAVES 1
($d_w d_w P_w H_w$ -code): The direction, period and height of the **wind-propagated** wave system. (See Tables 3, 4 and 5). Ref: World Meteorological Organization Codes 0885, 3155, 1555.
- (17) WAVES 2
($d_w d_w P_w H_w$ -code): The direction, period and height of the predominant **non-wind-propagated** wave system. (See Tables 3, 4 and 5). Ref: World Meteorological Organization Codes 0885, 3155, 1555.
- (18) WIND DIRECTION: The true direction to the nearest 10 degrees from which the wind is blowing (wind direction 990 means:—wind variable or direction unknown).
- (19) WIND FORCE
(WND-FCE): Beaufort notation (See Table 6).
- WIND SPEED
(WND-SPD): Anemometer reading reported in metres per second. Instrument height reported in "GENERAL INFORMATION" chapter of section III.
- (20) BAROMETER: The barometric pressure reported in millibars: the "GENERAL INFORMATION" chapter in Section III of the data record will state the type of instrument used.
- (21) AIR TEMPERATURE: In degrees Celsius.
- (22) WET BULB: In degrees Celsius.
- (23) ww CODE: Present Weather Code (See Table 7). Ref: WMO Code 4677
- (24) CLOUD TYPE: The type of predominating clouds (See Table 8). Ref: WMO Code 0500.
- (25) CLOUD AMOUNT: The sky coverage in eighths (See Table 9) Ref: WMO Code 2700
- (26) VISIBILITY: Visibility at the surface (See Table 10). Ref: WMO Code 4300.
- (27) STATION: A station reference number, assigned by the institute prior to, or during the survey.
- (28) HOURS AFTER HIGH WATER: Indicates the state of the tide for nearshore observations.

OBSERVED DATA HEADINGS

(1) GMT	(2) DEPTH	(3) TEMP	(4) SAL	(5) OXYGEN	(6) SGMT
(7) SOUND	(8) PO_4	(9) -P-	(10) NO_2	(11) NO_3	(12) SiO_2
				(13) pH.	

NOTE: Headings (1) to (7) will always be present. Headings (8) to (13) appear only when one or more additional chemical entries were made.

(1) G.M.T.: The Greenwich Mean Time of (in-situ) thermometer inversion and sea water sample collection.

When a multiple cast was initiated prior to and continued after midnight, the times indicated are uninterrupted by the change of day and appear beyond 24.0 hours. This will be accompanied by a statement: "MULTIPLE CAST CONTINUED NEXT DAY", which is printed following the last level of observed values.

(2) DEPTH: The depth in metres at the reversal time of deepest cast.

(3) TEMPERATURE: Temperatures from deepsea reversing thermometers, read to 0.01° C. Surface temperature measurement procedures are described in the chapter "OBSERVATION PROCEDURES" of section I, and/or the "GENERAL INFORMATION" chapter of section III. An alphabetical character following the temperature value represents the measurement error estimate referred to in the INTRODUCTION to this section.

(4) SALINITY: Salinity as defined by: $S = 0.03 + 1.805 C1\%$, reported in:
a. 1/100 parts per 1000, or
b. 1/1000 parts per 1000.

In case a: an alphabetical character following the value is the measurement error estimate as referred to under (3).

In case b: no error estimate indication is provided for, but an additional decimal digit takes its place.

(5) OXYGEN: The concentration of dissolved oxygen expressed in millilitres per litre to 2 decimal places. An alphabetical character following the value is the measurement error estimate as referred to under (3).

(6) SIGMA-T: The specific gravity anomaly as defined by: $(\text{Specific gravity} - 1) \times 10^3$ (e.g., σ_t reported as 2456, reads 24.56, and corresponds to a specific gravity of 1.02456).

(7) SOUND: The sound velocity is reported in m/sec. to 1 decimal place (e.g., 1437.9 m/sec.). The computation is carried out using Wilson's formula (1960), expressed in terms of temperature, salinity and total pressure.

- (8) PO_4 Phosphate-Phosphorus reported to hundredths of microgram-atoms per litre.
- (9) -P- Total Phosphorus reported to hundredths of microgram-atoms per litre.
- (10) NO_2 Nitrite-Nitrogen reported to hundredths of microgram-atoms per litre – No dissolved nitrogen included –
- (11) NO_3 Nitrate-Nitrogen reported to tenths of microgram-atoms per litre.
- (12) SiO_2 Silicate-Silicon reported in whole microgram-atoms per litre.
- (13) pH The pH value.

NOTE: "TRC" (trace) is reported when a chemical entry has a value less than the standard deviation of measurement for that particular variable.

INTERPOLATED DATA HEADINGS

(1) DEPTH	(2) TEMP	(3) SAL	(4) OXYGEN	(5) SGMT	(6) SOUND
(7) DELTA-D	(8) POT-EN	(9) SVA.			

- (1) DEPTH: Standard Oceanographic Depth in whole metres, as well as additional depths: 125, 175, 225, 3500, 4500, 5500, 6500, 7500, 8500, 9500.
- (2) TEMPERATURE: Interpolated value at standard depth, followed by the **combined measurement and interpolation error estimate** (see "INTRODUCTION" to section II of the data record).
- (3) SALINITY: **A.** The reported salinity values are measured to three decimal places.
 (i) the interpolation error estimate is less than twice the standard deviation of measurement
 —the interpolated value is reported to three decimal places (e.g., 30.139).
 (ii) the interpolation error estimate is equal to or greater than twice the standard deviation of measurement.
 —the interpolated value is reported to two decimal places, and followed by the **interpolation error estimate** (e.g., 29.23 C).
B. The reported salinity values are measured to two decimal places and followed by the measurement error estimate.
 —the interpolated value is reported to two decimal places, and followed by the **combined measurement and interpolation error estimate** (e.g., 30.59 B).
- (4) OXYGEN: Interpolated value at standard depth, followed by the **combined measurement and interpolation error estimate** (see "Introduction" to section II of the data record).

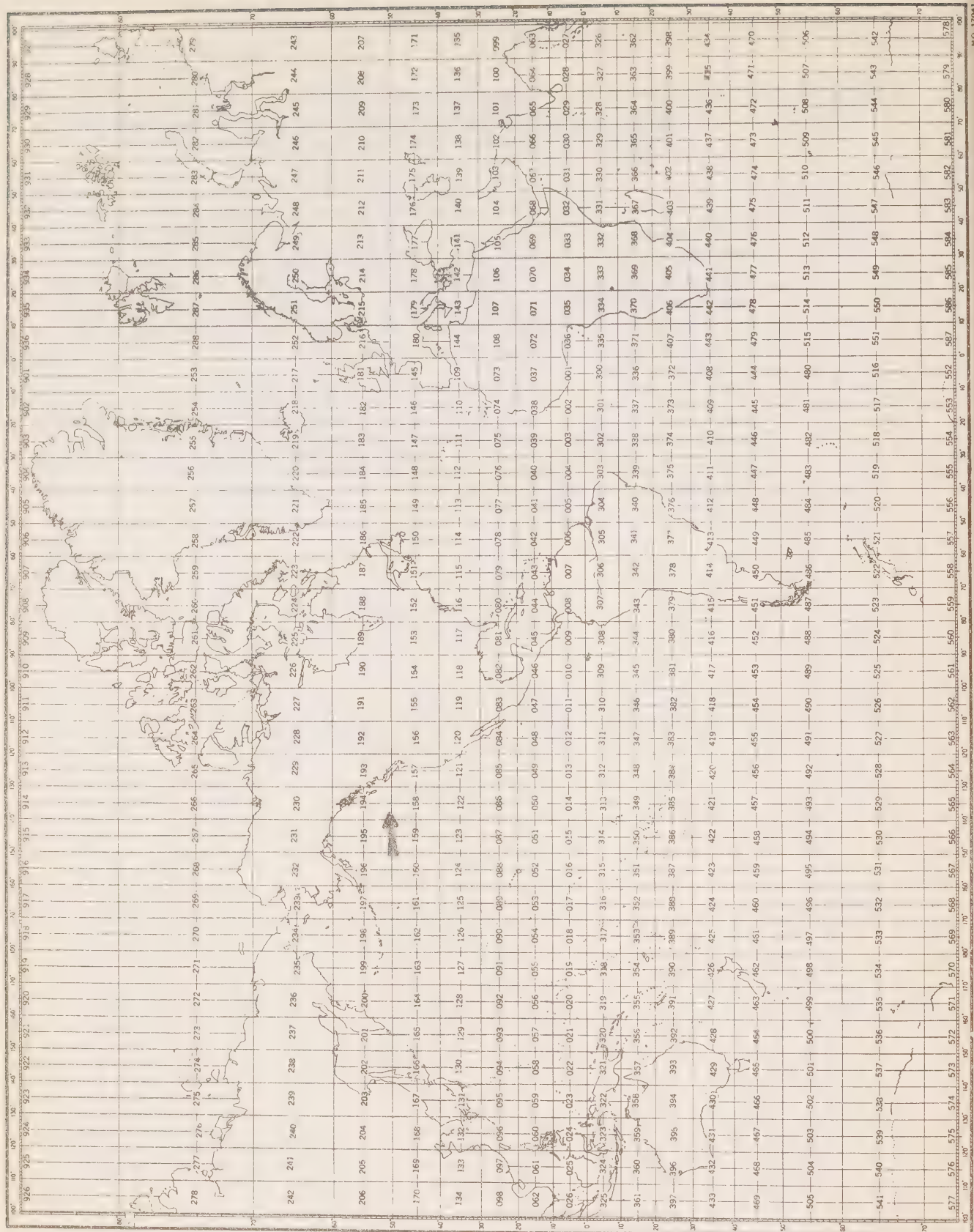
- (5) SIGMA-T: Computed from temperature and salinity values at standard oceanographic depth.
- (6) SOUND VELOCITY: Computed from temperature, salinity and total pressure values at standard oceanographic depth, using Wilson's formula (1960).
- (7) DELTA-D: The geo-potential anomaly as defined by:
- $$\Delta D = \int_0^p \delta dp$$
- ΔD is expressed in dynamic metres (10^5 ergs/gram) and recorded to three decimal places (e.g., 2.345 dyn. metres).
- (8) POTENTIAL ENERGY ANOMALY: The Potential energy anomaly χ as defined by:
- $$\chi = 1/g \int_0^p p \delta dp = \int_0^z \rho p \delta dz$$
- χ is expressed in units of 10^8 ergs/cm² and recorded to two decimal places (e.g., 116.44).
- (9) SPECIFIC VOLUME ANOMALY: The specific volume anomaly as defined by:
- $$\delta = \alpha - \alpha_{35.0.P}$$
- δ is expressed in ml/gr, and conventionally reported as $10^5 \delta$, to one decimal place (i.e., δ reported as 1234, reads 123.4, and corresponds to a specific volume anomaly of 0.001234 ml/gr.).

SPECIAL CHARACTERS

‡ (Record mark): is used to indicate inconsistencies which are printed in an area below the "Observed Data". A corresponding record mark at the extreme left hand side indicates the level at which the inconsistency occurs

* (Asterisk): this character may occur in the **interpolated** portion of the data record. It is printed at the extreme left hand side of the page, when three or more standard depth levels fall within any one **observed depth interval**. The **third**, and all consequent levels are preceded by the asterisk to indicate that more than **two** machine interpolations were carried out, utilizing the same set of interpolation parabolas. The asterisk will also appear when the last standard depth is an extrapolation and there are at least two interpolations between the last two observed depths.

Q: appears occasionally in this data record, preceding an observed oxygen value. This "questionable" indicator infers that the value does not fit the usual pattern of oxygen distribution. "The questionable" value could be due to a sampling error and, generally, is not a result of an error in determination.



MARS DEN SQUARE CHART

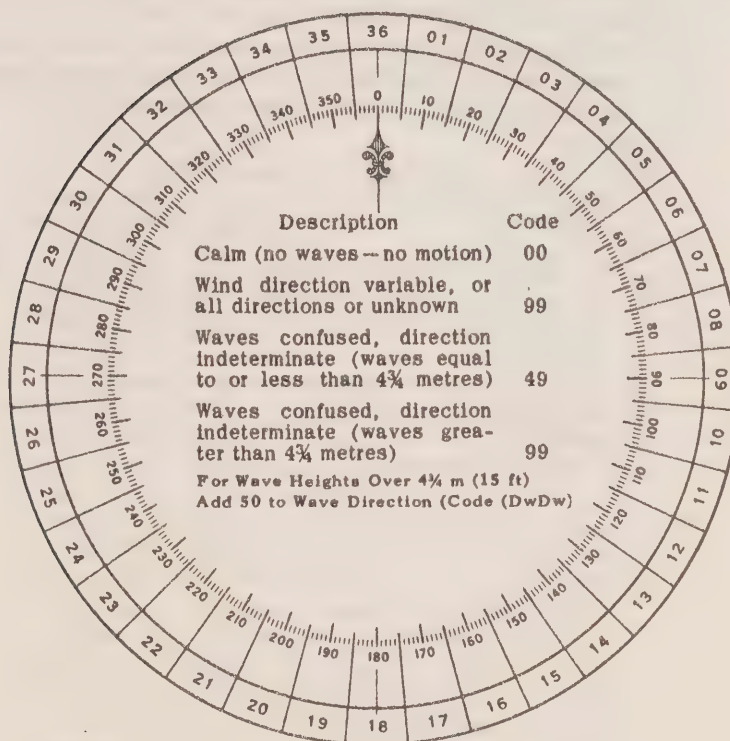
Table 1
CONVERSION
MINUTES TO $\frac{1}{4}$ HRS.

Minutes	Tenths Hrs.
00-03	0
04-08	1
09-15	2
16-20	3
21-27	4
28-32	5
33-39	6
40-44	7
45-51	8
52-56	9
57-59	0 (next HR.)

Table 2
WATER COLOR CODE
Based on Percentage Yellow

Code:	Description
00	Deep Blue
10	Blue
20	Greenish Blue
30	Bluish Green
40	Green
50	Light Green
60	Yellowish Green
70	Yellow Green
80	Green Yellow
90	Greenish Yellow
99	Yellow

Table 3. DIRECTION CODE (dd)



NOTE:

Always use the true direction from which the wind is blowing, or the direction from which Waves I (sea), or Waves II (swell) come.

Table 4. PERIOD OF THE WAVES (Pw)
(Measure to the Nearest Second)

Code:	Period in Seconds:	Code:	Period in Seconds:
2	5 sec. or less	8	16 or 17 sec.
3	6 or 7 sec.	9	18 or 19 sec.
4	8 or 9 sec.	0	20 or 21 sec.
5	10 or 11 sec.	1	Over 21 sec.
6	12 or 13 sec.	X	Calm, or period not determined
7	14 or 15 sec.		

Table 5. HEIGHT OF THE WAVES (Hw)

- The average value of the wave height (vertical distance between trough and crest) is reported, as obtained from the larger well formed waves of the wave system being observed.
- Each code figure provides for reporting a range of heights. For example: 1 = $\frac{1}{4}$ m (1 ft) to $\frac{3}{4}$ m ($2\frac{1}{2}$ ft); 5 = $2\frac{1}{4}$ m (7 ft) to $2\frac{3}{4}$ m (9 ft); 9 = $4\frac{1}{4}$ m ($13\frac{1}{2}$ ft) to $4\frac{3}{4}$ m (15 ft), etc.
- If a wave height comes exactly midway between the heights corresponding to two code figures, the lower code figure is reported; e.g. a height of $2\frac{3}{4}$ m is reported by code figure 5.

Code			Code
0	Less than ¼ m (1 ft)	Add 50 to Dw Dw	0 5 m (16 ft)
1	½ m (1½ ft)		1 5½ m (17½ ft)
2	1 m (3 ft)		2 6 m (19 ft)
3	1½ m (5 ft)		3 6½ m (21 ft)
4	2 m (6½ ft)		4 7 m (22½ ft)
5	2½ m (8 ft)		5 7½ m (24 ft)
6	3 m (9½ ft)		6 8 m (25½ ft)
7	3½ m (11 ft)		7 8½ m (27 ft)
8	4 m (13 ft)		8 9 m (29 ft)
9	4½ m (14 ft)		9 9½ m (30½ ft) or more
x	Height not determined		

Add
50
to
Dw Dw

Table 6. WIND FORCE CODE

The Beaufort force of the wind is estimated from the appearance of the sea surface, according to the table below. This table is only intended as a guide to show roughly what may be expected on the open sea, remote from land. Factors which must be taken into account are the "lag" effect between the wind increasing and the sea getting up; and the influence of "fetch", depth, swell, heavy rain and tide effect on the appearance of the sea. Estimation of the wind force by this method becomes unreliable in shallow water or when close inshore, owing to the tidal effect and the shelter provided by the land.

Code	Appearance of sea if fetch and duration of the blow have been sufficient to develop the sea fully	Description
00	Sea like a mirror	Calm
01	Ripples with the appearance of scales are formed, but without foam crests.	Light Air
02	Small wavelets; crests have a glassy appearance and do not break.	Light Breeze
03	Large wavelets; crests begin to break; foam of glassy appearance; perhaps scattered white horses.	Gentle Breeze
04	Small waves, becoming longer; fairly frequent white horses.	Moderate breeze
05	Moderate waves; many white horses are formed (chance of some spray)	Fresh Breeze
06	Large waves; white foam crests everywhere (probably some spray)	Strong Breeze
07	Sea heaps up and white foam from breaking waves begins to be blown in streaks along the direction of the wind.	Near Gale
08	Moderately high waves; edges of crests begin to break into the spindrift; foam is blown in well-marked streaks along the direction of the wind.	Gale
09	High waves; dense streaks of foam along wind; crests begin to topple, tumble and roll over; spray may affect visibility.	Strong Gale
10	Very high waves with long overhanging crests; foam in great patches blown in dense white streaks along wind; sea surface takes a white appearance; tumbling becomes heavy and shock-like; visibility affected.	Storm
11	Exceptionally high waves (medium sized ships may be lost to view behind waves); sea covered with long white patches of foam lying along the wind; everywhere edges of crests are blown into froth; visibility affected.	Violent Storm
12	Air is filled with foam and spray; sea completely white with driving spray; visibility seriously affected.	Hurricane

Table 7. PRESENT WEATHER

W.W. CODE

NO PRECIPITATION ON STATION AT TIME OF OBSERVATION

Code figure		ww	
No meteors except photometeors	{	00	Cloud development not observed or not observable
		01	Clouds generally dissolving or becoming less developed
		02	State of sky on the whole unchanged
		03	Clouds generally forming or developing
		characteristic change of the state of sky during the past hour	
Haze, dust, sand or smoke	{	04	Visibility reduced by smoke, e.g. veldt or forest fires, industrial smoke or volcanic ashes
		05	Haze
		06	Widespread dust in suspension in the air, not raised by wind at or near the station at the time of observation
		07	Dust or sand raised by wind at or near the station at the time of observation, but no well developed dust whirl(s) or sand whirl(s), and no duststorm or sandstorm seen
		08	Well developed dust whirl(s) or sand whirl(s) seen at or near the station during the preceding hour or at the time of observation, but no dustorm or sandstorm
		09	Duststorm or sandstorm within sight at the time of observation, or at the station during the preceding hour
		10	Mist
		11	Patches of { shallow fog or ice fog at the station, whether on land or sea, not
		12	More of less { deeper than about 2 metres on continuous land or 10 metres at sea
		13	Lightning visible, no thunder heard
		14	Precipitation within sight, not reaching the ground or the surface of the sea
		15	Precipitation within sight, reaching the ground or the surface of the sea, but distant (i.e. estimated to be more than 5 km) from the station
		16	Precipitation within sight, reaching the ground or the surface of the sea, near to, but not at the station
		17	Thunderstorm, but no precepitation at the time of observation
		18	Squalls { at or within sight of the station during the preceding hour
		19	Funnel clouds { or at the time of observation

ww = 20 - 29		Precipitation, fog, ice fog or thunderstorm at the station during the preceding hour but not at the time of observation	
20	Drizzle (not freezing) or snow grains	{	not falling as shower(s)
21	Rain (not freezing)		
22	Snow		
23	Rain and snow or ice pellets, type (a)		
24	Freezing drizzle or freezing rain		
25	Shower(s) of rain		
26	Shower(s) of snow, or of rain and snow		
27	Shower(s) of hail, or of rain and hail		
28	Fog or ice fog		
29	Thunderstorm (with or without precipitation)		
ww = 30 - 39		Duststorm, sandstorm, drifting or blowing snow	
30	{ Slight or moderate duststorm or sandstorm	{	- has decreased during the preceding hour
31			- no appreciable change during the preceding hour
32			- has begun or has increased during the preceding hour
33	{ Severe duststorm or sandstorm	{	- has decreased during the preceding hour
34			- no appreciable change during the preceding hour
35			- has begun or has increased during the preceding hour
36	Slight or moderate blowing snow	{	generally low (below eye level)
37	Heavy drifting snow		
38	Slight or moderate blowing snow	{	generally high (above eye level)
39	Heavy blowing snow		
ww = 40 - 49		Fog or ice fog at the time of observation	
40	Fog or ice fog at a distance at the time of observation, but not at the station during the preceding hour, the fog or ice fog extending to a level above that of the observer		
41	Fog or ice fog in patches		
42	Fog or ice fog, sky visible	{	has become thinner during the preceding hour
43	Fog or ice fog, sky invisible		
44	Fog or ice fog, sky visible	{	no appreciable change during the preceding hour
45	Fog or ice fog, sky invisible		
46	Fog or ice fog, sky visible	{	has begun or has become thicker during the preceding hour
47	Fog or ice fog, sky invisible		
48	Fog, depositing rime, sky visible		
49	Fog, depositing rime, sky invisible		

NO PRECIPITATION ON STATION AT TIME OF OBSERVATION

PRECIPITATION ON STATION AT TIME OF OBSERVATION

ww = 50 - 59 Drizzle

- | | | | |
|----|--|---|--------------------------------------|
| 50 | Drizzle, not freezing, intermittent | { | slight at time of observation |
| 51 | Drizzle, not freezing, continuous | | |
| 52 | Drizzle, not freezing, intermittent | { | moderate at time of observation |
| 53 | Drizzle, not freezing, continuous | | |
| 54 | Drizzle, not freezing, intermittent | { | heavy (dense) at time of observation |
| 55 | Drizzle, not freezing, continuous | | |
| 56 | Drizzle, freezing, slight | | |
| 57 | Drizzle, freezing, moderate or heavy (dense) | | |
| 58 | Drizzle and rain, slight | | |
| 59 | Drizzle and rain, moderate or heavy | | |

ww = 60 - 69 Rain

- | | | | |
|----|---|---|---------------------------------|
| 60 | Rain, not freezing, intermittent | { | slight at time of observation |
| 61 | Rain, not freezing, continuous | | |
| 62 | Rain, not freezing, intermittent | { | moderate at time of observation |
| 63 | Rain, not freezing, continuous | | |
| 64 | Rain, not freezing, intermittent | { | heavy at time of observation |
| 65 | Rain, not freezing, continuous | | |
| 66 | Rain, freezing, slight | | |
| 67 | Rain, freezing, moderate or heavy | | |
| 68 | Rain or drizzle and snow, slight | | |
| 69 | Rain or drizzle and snow, moderate or heavy | | |

70 - 79 Solid precipitation not in showers

ww

- | | | | |
|----|---|---|---------------------------------|
| 70 | Intermittent fall of snow flakes | { | slight at time of observation |
| 71 | Continuous fall of snow flakes | | |
| 72 | Intermittent fall of snow flakes | { | moderate at time of observation |
| 73 | Continuous fall of snow flakes | | |
| 74 | Intermittent fall of snow flakes | { | heavy at time of observation |
| 75 | Continuous fall of snow flakes | | |
| 76 | Ice prisms (with or without fog) | | |
| 77 | Snow grains (with or without fog) | | |
| 78 | Isolated starlike snow crystals (with or without fog) | | |
| 79 | Ice pellets, type (a) | | |

ww = 80 - 99 Showery precipitation, or precipitation with current or recent thunderstorm

- | | | | |
|----|--|---|---|
| 80 | Rain shower(s), slight | | |
| 81 | Rain shower(s), moderate or heavy | | |
| 82 | Rain shower(s), violent | | |
| 83 | Shower(s) of rain and snow mixed, slight | | |
| 84 | Shower(s) of rain and snow mixed, moderate or heavy | | |
| 85 | Snow shower(s), slight | | |
| 86 | Snow shower(s), moderate or heavy | | |
| 87 | Shower(s) of snow pellets or ice pellets, type (b), with or without rain | { | - slight |
| 88 | or rain and snow mixed | | |
| 89 | Shower(s) of hail, with or without rain or rain and snow mixed, not associated with thunder | { | - moderate or heavy |
| 90 | | | |
| 91 | Slight rain at time of observation | | |
| 92 | Moderate or heavy rain at time of observation | | |
| 93 | Slight snow, or rain and snow mixed or hail at time of observation | { | thunderstorm during the preceding hour but not at time of observation |
| 94 | Moderate or heavy snow, or rain and snow mixed or hail at time of observation | | |
| 95 | Thunderstorm, slight or moderate, without hail, but with rain and/or snow at time of observation | { | thunderstorm at time of observation |
| 96 | Thunderstorm, slight or moderate, with hail at time of observation | | |
| 97 | Thunderstorm, heavy, without hail, but with rain and/or snow at time of observation | { | |
| 98 | Thunderstorm, combined with duststorm or sandstorm at time of observation | | |
| 99 | Thunderstorm, heavy, with hail at time of observation | | |

PRECIPITATION ON STATION AT TIME OF OBSERVATION

Table 8. CLOUD TYPE CODE

Code	Cloud Type	Code	Cloud Type
0	Cirrus Ci	5	Nimbostratus Ns
1	Cirrocumulus Cc	6	Stratocumulus Sc
2	Cirrostratus Cs	7	Stratus St
3	Alto cumulus Ac	8	Cumulus Cu
4	Altostratus As	9	Cumulonimbus Cb
x	Cloud not visible owing to darkness, fog, duststorm, sandstorm, or other analogous phenomena		

Table 9. CLOUD AMOUNT CODE

Code	Cloud Cover	Code	Cloud Cover
0	0	6	6 oktas
1	1 okta or less, but not zero	7	7 oktas or more, but not 8 oktas
2	2 oktas	8	8 oktas
3	3 oktas	9	Sky obscured, or cloud amount cannot be estimated
4	4 oktas		
5	5 oktas		

Note: 1 okta = $\frac{1}{8}$ of the sky covered

Table 10. VISIBILITY

Code	Estimate of hor. Visibility
0	Less than 50 metres (less than 55 yards)
1	50-200 metres (approx. 55-220 yards)
2	200-500 metres (approx. 220-550 yards)
3	500-1,000 metres (approx. 550 yards- $\frac{1}{2}$ n.m.)
4	1-2 km (approx. $\frac{1}{2}$ -1 n.m.)
5	2-4 km (approx. 1-2 n.m.)
6	4-10 km (approx. 2-6 n.m.)
7	10-20 km (approx. 6-12 n.m.)
8	20-50 km (approx. 12-30 n.m.)
9	50 km or more (30 n.m. or more)

Note: n.m. = nautical mile

Table 11Institute Code

01. Atlantic Oceanographic Group.
02. Pacific Oceanographic Group.
03. Biological Station, St. Andrews, N. B.
04. Arctic Biological Station, Ste. Anne de Bellevue, P. Q.
05. Biological Station, St. John's Nfld.
06. Station de Biologie Marine, Grande Riviere, P. Q.
07. Marine Sciences Branch, Central Region.
08. Naval Research Establishment, Dartmouth, N. S.
09. Pacific Naval Laboratory, Esquimalt, B. C.
10. Bedford Institute of Oceanography, (MSB, Atlantic Region).
11. Polar Continental Shelf Project.
12. Great Lakes Institute.
13. Institute of Oceanography, University of British Columbia.
14. Institute of Oceanography, Dalhousie University.
15. Marine Sciences Branch, Pacific Region.
16. Department of Transport.
17. Marine Sciences Centre, McGill University.
18. RCN East Coast.
19. RCN West Coast.
20. Ontario Water Resources Commission.
21. Department of National Health and Welfare.
22. Inland Waters Branch, Dept. of Energy, Mines and Resources.

SECTION III

Serial oceanographic data

GENERAL INFORMATION

<u>Institute:</u>	Pacific Oceanographic Group Nanaimo, B. C.
<u>Observation Platform:</u>	CCGS "St. Catharines"
<u>Vessel's cruising speed:</u>	13 knots
<u>Total number of stations occupied:</u>	34
<u>Anemometer Height above sea level:</u>	19 metres
<u>Water transparency:</u>	Secchi Disc.
<u>Barometer readings:</u>	Aneroid Barometer (corrected)
<u>Air temperature:</u>	Sling Psychrometer
<u>Wet bulb temperature:</u>	Sling Psychrometer
<u>Surface sea water temperature:</u>	Bucket sample (deck thermometer)
<u>Depth to bottom:</u>	U. S. Coast and Geodetic Survey Chart 8500

The following Standard Deviations were used to express both measurement and interpolation error estimates:

Temperature	0.02
Salinity	0.003
Oxygen	0.03

C-REF-NO 002	YR 1966	DEPTH C 3889	WAVES 1 0321	AIR T 03.8	VIS 7
CONS. NO 001	MONTH 3	MXSAMPD 04	WAVES 2 3034	WET B 02.7	STN 010
LAT 49-34 N	DAY 06	NO.DPTH 14	WND-DIR 030	WW-CODE 03	
LON 138-40 W	HR 17.8	W-COLOR 10	WND-SPD 03	CLD-TPE 9	
MARSD SQ 158	C/I 1802	W-TRNSP 20	BARO 997.0	CLD-AMT 6	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
178	0000	059 B	32602		2569	14715
178	0010	0578	32577		2569	14711
178	0020	0581	32579		2569	14714
178	0030	0580	32579		2569	14716
178	0050	0580	32580		2569	14719
178	0074	0582 B	32582		2569	14724
178	0099	0582	32583		2569	14728
178	0124	0562	32968		2602	14729
178	0149	0534	33319		2633	14726
178	0174	0516	33530		2651	14726
178	0198	0487	33676		2666	14720
178	0248	0428	33747		2678	14704
178	0298	0410 B	33825		2686	14706
178	0398	0389	33968		2700	14716

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0590 B	32602		2569	14715	0000	00000	2306
0010	0578	32577		2569	14711	0023	00001	2312
0020	0581	32579		2569	14714	0047	00005	2315
0030	0580	32579		2569	14716	0070	00011	2315
0050	0580	32580		2569	14719	0116	00030	2316
0075	0582 B	32578		2569	14724	0175	00067	2323
0100	0581	32595		2570	14728	0233	00120	2312
0125	0561	32984		2603	14729	0287	00182	2000
0150	0533	33329		2634	14726	0334	00247	1713
0175	0515	33537		2652	14725	0375	00315	1539
0200	0484	33682		2667	14719	0412	00386	1399
0225	0452	3373 E		2675	14710	0446	00461	1328
0250	0427	33750		2679	14704	0479	00542	1291
0300	0400 C	33825		2687	14702	0543	00719	1211
0400	0390	33971		2700	14716	0659	01135	1099

C-REF-NO 002	YR 1966	DEPTH C 3880	WAVES 1 0321	AIR T 05.5	VIS 7
CONS. NO 002	MONTH 3	MXSAMPD 15	WAVES 2 2823	WET B 03.3	STN 011
LAT 49-42 N	DAY 07	NO.DPTH 20	WND-DIR 030	WW-CODE 02	
LON 140-40 W	HR 00.7	W-COLOR 10	WND-SPD 05	CLD-TPE 8	
MARSD SQ 159	C/I 1802	W-TRNSP 17	BARO 995.0	CLD-AMT 4	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
007	0000	052 B	32638		2581	14687
007	0010	0566	32603		2572	14707
007	0020	0563	32602		2573	14707
007	0030	0562	32602		2573	14709
007	0050	0561	32599		2573	14711
007	0075	0558 B	32600		2573	14714
007	0100	0560	32618		2574	14719
007	0125	0524	32891		2600	14712
007	0150	0470	33321		2640	14700
007	0175	0447	33506		2657	14697
007	0200	0412	33655		2673	14688
007	0250	0379	33786		2686	14684
007	0300	0370	33860		2693	14690
007	0400	0368	33984		2703	14707
012	0500	0371	34124		2714	14727
012	0600	0359	34204		2722	14739
012	0800	0327	34319		2734	14761
012	1000	0297	34393		2743	14782
012	1200	0264	34449		2750	14802
012	1500	0229	34518		2758	14838

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0520 B	32638		2581	14687	0000	00000	2201
0010	0566	32603		2572	14707	0023	00001	2279
0020	0563	32602		2573	14707	0045	00005	2277
0030	0562	32602		2573	14709	0068	00011	2277
0050	0561	32599		2573	14711	0114	00029	2280
0075	0558 B	32600		2573	14714	0172	00066	2279
0100	0560	32618		2574	14719	0229	00118	2270
0125	0524	32891		2600	14712	0283	00180	2028
0150	0470	33321		2640	14700	0329	00244	1649
0175	0447	33506		2657	14697	0369	00310	1488
0200	0412	33655		2673	14688	0404	00378	1342
0225	0391	3374 B		2681	14685	0437	00450	1261
0250	0379	33786		2686	14684	0468	00526	1215
0300	0370	33860		2693	14690	0528	00694	1154
0400	0368	33984		2703	14707	0640	01095	1067
0500	0371	34124		2714	14727	0743	01568	0973

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0600	0359	34204		2722	14739	0838	02104	0909
0700	0344	34268		2728	14750	0927	02697	0852
0800	0327	34319		2734	14761	1011	03342	0803
1000	0297	34393		2743	14782	1166	04770	0729
1200	0264	34449		2750	14802	1307	06361	0663
1500	0229	34518		2758	14838	1498	08993	0589

C-REF-NO 002	YR 1966	DEPTH C 3909	WAVES 1 3522	AIR T 05.5	VIS 7
CONS. NO 003	MONTH 3	MXSAMPD 04	WAVES 2 3523	WET B 04.4	STN 012
LAT 49-49 N	DAY 07	NO.DPTH 14	WND-DIR 990	WW-CODE 15	
LON 142-40 W	HR 09.5	W-COLOR	WND-SPD 03	CLD-TPE 8	
MARSD SQ 159	C/I 1802	W-TRNSP	BARO 994.0	CLD-AMT 5	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
095	0000	047 B	32667		2588	14667
095	0010	0530	32652		2580	14693
095	0020	0532	32654		2580	14695
095	0030	0530	32657		2581	14696
095	0050	0528	32654		2581	14699
095	0075	0526 B	32654		2581	14702
095	0100	0528	32656		2581	14707
095	0125	0530	32830		2595	14714
095	0150	0492	33471		2650	14711
095	0175	0465	33608		2663	14706
095	0200	0443				
095	0250	0394 B	33764		2683	14691
095	0300	0377	33834		2690	14692
095	0400	0375	33981		2702	14710

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0470 B	32667		2588	14667	0000	00000	2127
0010	0530	32652		2580	14693	0022	00001	2202
0020	0532	32654		2580	14695	0044	00005	2204
0030	0530	32657		2581	14696	0066	00010	2200
0050	0528	32654		2581	14699	0110	00028	2202
0075	0526 B	32654		2581	14702	0166	00064	2202
0100	0528	32656		2581	14707	0221	00114	2206
0125	0530	32830		2595	14714	0275	00176	2080
0150	0492	33471		2650	14711	0321	00240	1560
0175	0465	33608		2663	14706	0359	00302	1431
0200	0443	3369 D		2672	14702	0394	00370	1352
0225	0417 B	3374 D		2679	14696	0427	00442	1288
0250	0394 B	33764		2683	14690	0459	00520	1246
0300	0377	33834		2690	14692	0520	00692	1181
0400	0375	33981		2702	14710	0634	01099	1076

C-REF-NO 002	YR 1966	DEPTH C 4114	WAVES 1 22	AIR T 04.9	VIS 7
CONS. NO 004	MONTH 3	MXSAMPD 15	WAVES 2 23	WET B 02.7	STN ON
LAT 50-00 N	DAY 07	NO.DPTH 20	WND-DIR 180	WW-CODE 03	
LON 143-54 W	HR 17.5	W-COLOR 10	WND-SPD 09	CLD-TPE 8	
MARSD SQ 195	C/I 1802	W-TRNSP 19	BARO 990.0	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
175	0000	048 B	32668		2587	14671
175	0010	0531	32645		2580	14693
175	0020	0534	32646		2580	14696
175	0030	0533	32644		2580	14697
175	0050	0533 B	32645		2580	14701
175	0074	0532 B	32645		2580	14704
175	0099	0533	32646		2580	14709
175	0124	0537	32907		2600	14718
175	0149	0512	33251		2630	14716
175	0174	0479	33538		2656	14711
175	0199	0451	33696		2672	14705
175	0248	0396 B	33745		2682	14691
175	0298	0385	33826		2689	14695
175	0397	0371	33970		2702	14708
180	0497	0372	34083		2711	14726
180	0597	0357	34175		2720	14738
180	0796	0326	34296		2732	14759
180	0995	0298	34378		2741	14782
180	1193	0267	34437		2749	14802
180	1490	0235 B	34508		2757	14839

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0480 B	32668		2587	14671	0000	00000	2136
0010	0531	32645		2580	14693	0022	00001	2208
0020	0534	32646		2580	14696	0044	00005	2212
0030	0533	32644		2580	14697	0066	00010	2213
0050	0533 B	32645		2580	14701	0111	00029	2215
0075	0532 B	32643		2580	14704	0167	00064	2218
0100	0533	32653		2580	14709	0222	00114	2214
0125	0536	32921		2601	14718	0276	00176	2019
0150	0511	33264		2631	14716	0323	00242	1736
0175	0478	33546		2657	14710	0364	00309	1491
0200	0450	33699		2672	14705	0399	00378	1349
0225	0419 B	3374 E		2679	14697	0433	00450	1287
0250	0395 B	33748		2682	14691	0465	00528	1259
0300	0385	33829		2689	14696	0527	00703	1192
0400	0371	33974		2702	14708	0641	01111	1078
0500	0372	34086		2711	14727	0746	01595	1002

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0600	0357	34177		2720	14738	0843	02143	0926
0700	0341	34245		2727	14749	0934	02747	0866
0800	0325	34298		2732	14760	1019	03402	0817
1000	0297	34380		2741	14782	1177	04853	0739
1200	0268	34442		2749	14804	1320	06467	0674
1500	0234 B	34510		2757	14840	1514	09146	0601

C-REF-NO 002	YR 1966	DEPTH C 3968	WAVES 1 0822	AIR T 04.4	VIS 7
CONS. NO 005	MONTH 3	MXSAMPD 15	WAVES 2 0823	WET B 02.7	STN GN
LAT 50-42 N	DAY 08	NO.DPTH 20	WND-DIR 080	WW-CODE 02	
LON 143-52 W	HR 02.2	W-COLOR 10	WND-SPD 10	CLD-TPE 8	
MARSD SQ 195	C/I 1802	W-TRNSP 08	BARO 989.0	CLD-AMT 4	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
022	0000	044 B	32675		2592	14654
022	0010	0488	32651		2585	14675
022	0020	0488	32653		2585	14677
022	0030	0488	32654		2585	14679
022	0049	0487	32655		2586	14682
022	0074	0484 B	32659		2586	14684
022	0098	0487	32661		2586	14690
022	0123	0456	33129		2626	14687
022	0148	0413	33460		2657	14678
022	0173	0403	33638		2672	14680
022	0198	0385	33743		2682	14678
022	0247	0376	33829		2690	14683
022	0297	0366	33897		2697	14688
022	0397	0362	34024		2707	14705
027	0500	0364	34118		2714	14724
027	0600	0348	34198		2722	14735
027	0800	0316	34312		2734	14756
027	1000	0289	34382		2742	14779
027	1200	0263	34448		2750	14802
027	1500	0234	34527		2759	14841

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0440 B	32675		2592	14654	0000	00000	2091
0010	0488	32651		2585	14675	0021	00001	2158
0020	0488	32653		2585	14677	0043	00004	2157
0030	0488	32654		2585	14679	0065	00010	2158
0050	0487	32655		2586	14682	0108	00028	2157
0075	0484 B	32655		2586	14685	0163	00063	2157
0100	0485	3269 C		2589	14690	0217	00111	2132
0125	0452	33161		2629	14686	0265	00167	1748
0150	0412	33478		2659	14678	0306	00224	1470
0175	0402	33649		2673	14680	0341	00282	1334
0200	0384	33748		2683	14678	0374	00345	1244
0225	0378	3380 B		2688	14680	0405	00412	1200
0250	0375	33833		2691	14684	0434	00485	1175
0300	0366	33901		2697	14689	0492	00648	1119
0400	0362	34027		2707	14705	0601	01035	1029
0500	0364	34118		2714	14724	0702	01500	0970

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0600	0348	34198		2722	14735	0796	02033	0901
0700	0332	34262		2729	14745	0884	02621	0844
0800	0316	34312		2734	14756	0967	03260	0797
1000	0289	34382		2742	14779	1122	04683	0729
1200	0263	34448		2750	14802	1263	06272	0663
1500	0234	34527		2759	14841	1453	08902	0588

C-REF-NO 002	YR 1966	DEPTH C 4279	WAVES 1 0333	AIR T 04.4	VIS 15
CONS. NO 006	MONTH 3	MXSAMPD 04	WAVES 2 0434	WET B 02.7	STN GS
LAT 50-42 N	DAY 08	NO.DPTH 14	WND-DIR 030	WW-CODE 18	
LON 145-00 W	HR 10.4	W-COLOR	WND-SPD 11	CLD-TPE 9	
MARSD SQ 195	C/I 1802	W-TRNSP	BARO 990.0	CLD-AMT 6	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
104	0000	044 B	32652		2590	14654
104	0010	0490	32635		2584	14676
104	0020	0491	32628		2583	14678
104	0030	0490	32629		2583	14679
104	0050	0490	32626		2583	14683
104	0075	0490 B	32632		2583	14687
104	0100	0492	32648		2584	14692
104	0125	0466	33078		2621	14691
104	0150	0400	33484		2660	14673
104	0175	0359	33614		2675	14661
104	0200	0346	33682		2681	14661
104	0250	0343	33765		2688	14669
104	0300	0342	33859		2696	14678
104	0400	0350	34029		2709	14700

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0440 B	32652		2590	14654	0000	00000	2108
0010	0490	32635		2584	14676	0022	00001	2172
0020	0491	32628		2583	14678	0043	00004	2179
0030	0490	32629		2583	14679	0065	00010	2178
0050	0490	32626		2583	14683	0109	00028	2182
0075	0490 B	32632		2583	14687	0164	00063	2180
0100	0492	32648		2584	14692	0219	00112	2172
0125	0466	33078		2621	14691	0269	00170	1825
0150	0400	33484		2660	14673	0311	00228	1454
0175	0359	33614		2675	14661	0345	00286	1319
0200	0346	33682		2681	14661	0378	00348	1257
0225	0342	33727		2685	14664	0409	00416	1221
0250	0343	33765		2688	14669	0440	00490	1195
0300	0342	33859		2696	14678	0498	00655	1127
0400	0350	34029		2709	14700	0606	01041	1015

C-REF-NO 002 YR 1966 DEPTH C 4220 WAVES 1 1922 AIR T 05.5 VIS 7
 CONS. NO 007 MONTH 3 MXSAMPD 42 WAVES 2 1933 WET B 03.3 STN 101
 LAT 50-01 N DAY 11 NO.DPTH 26 WND-DIR 190 WW-CODE 01
 LON 144-53 W HR 19.0 W-COLOR 10 WND-SPD 04 CLD-TPE 9
 MARSD SQ 195 C/I 1802 W-TRNSP 19 BARO 1011.0 CLD-AMT 3 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
190	0000	049	32803	717	2597	14677
190	0010	0510	32641	736	2582	14684
190	0020	0510	32640	745	2582	14686
190	0030	0509	32640		2582	14687
190	0050	0508	32638		2582	14690
190	0075	0507	32637		2582	14694
190	0100	0510	32639		2582	14699
190	0125	0513	32667	613	2584	14705
190	0150	0434	33371	522	2648	14686
190	0175	0393	33566	378	2668	14675
190	0200	0367	33658	320	2677	14669
190	0250	0356	33748	258	2686	14674
190	0300	0353	33839	188	2693	14682
190	0400	0357	33994	117	2705	14703
190	0500	0355	34104	085	2714	14720
190	0600	0342	34181	074	2721	14732
201	0794	0316	34300	070	2733	14755
201	0982	0286 B	34382	063	2743	14774
201	1191	0264 B		Q 081		
201	1490	0231	34502	087	2757	14837
201	1990	0198	34576	127	2766	14909
201	2487	0174	34619	202	2771	14984
201	2983	0160	34639	Q 218	2773	15064
201	3480	0153	34663	303	2776	15148
201	3980	0152	34668	322	2776	15235
201	4180	0153	34672	318	2777	15271

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SWA
0000	0490 B	32803	717	2597	14677	0000	00000	2045
0010	0510	32641	736	2582	14684	0021	00001	2189
0020	0510	32640	745	2582	14686	0043	00005	2190
0030	0509	32640	756 B	2582	14687	0065	00010	2190
0050	0508	32638	760 C	2582	14690	0110	00028	2193
0075	0507	32637	739 C	2582	14694	0165	00064	2198
0100	0510	32639	690 B	2582	14699	0220	00113	2199
0125	0513	32667	613	2584	14705	0275	00177	2183
0150	0434	33371	522	2648	14686	0322	00243	1574
0175	0393	33566	378	2668	14675	0360	00305	1388

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0200	0367	33658	320	2677	14669	0394	00370	1295
0225	0358	3371 B	285	2683	14670	0426	00439	1248
0250	0356	33748	258	2686	14674	0457	00515	1220
0300	0353	33839	188	2693	14682	0517	00684	1153
0400	0357	33994	117	2705	14703	0628	01080	1048
0500	0355	34104	085	2714	14720	0730	01550	0971
0600	0342	34181	074	2721	14732	0824	02085	0908
0700	0329	34247	071	2728	14744	0913	02678	0852
0800	0315	34303	070	2734	14755	0997	03322	0802
1000	0284 B	34388	064	2743	14776	1151	04739	0719
1200	0263 B	3445 B	081	2750	14802	1291	06320	0665
1500	0230	34504	087	2757	14839	1484	08983	0600
2000	0197 B	34577	129	2766	14910	1771	14121	0530
2500	0174	34620	202	2771	14986	2030	20114	0488
3000	0160	34640	221	2774	15067	2274	27052	0470
3500	0153 B	34663	305	2776	15151	2512	35032	0458
4000	0152	34670	324	2777	15239	2749	44237	0466

C-REF-NO 002	YR 1966	DEPTH C 4220	WAVES 1 3534	AIR T 04.4	VIS 7
CONS. NO 008	MONTH 3	MXSAMPD 20	WAVES 2 3545	WET B 02.2	STN 102
LAT 50-08 N	DAY 16	NO.DPTH 22	WND-DIR 350	WW-CODE 01	
LON 145-02 W	HR 19.3	W-COLOR 30	WND-SPD 12	CLD-TPE 1	
MARSD SQ 195	C/I 1802	W-TRNSP 15	BARO 1021.0	CLD-AMT 2	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
193	0000	043 B	32676	708	2593	14650
193	0003	0482				
193	0009	0480	32639	714	2585	14672
193	0019	0482	32639	706	2585	14674
193	0028	0481	32640	705	2585	14675
193	0048	0480	32641	704	2585	14678
193	0072	0478 B	32639	698	2585	14681
193	0096	0481	32642	694	2585	14687
193	0120	0482	32640	653 B	2585	14691
193	0144	0459 B	33197	549	2631	14693
193	0167	0426	33395	501	2651	14685
193	0192	0374	33593	382	2672	14670
193	0240	0346	33697	298	2683	14668
193	0288	0340	33788	225	2690	14674
193	0386	0349	33970	126	2704	14697
201	0483	0352	34076	081	2712	14715
201	0581	0346	34218	075	2724	14731
201	0780	0323	34285	063	2732	14755
201	0981	0293	34366	055	2741	14777
201	1180	0268	34421	061	2747	14800
201	1484	0232	34491	077	2756	14837
201	1994	0198 B	34574	125	2765	14909

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0430 B	32676	708	2593	14650	0000	00000	2080
0010	0480	32638	713	2585	14672	0021	00001	2160
0020	0482	32639	706	2585	14674	0043	00004	2162
0030	0481	32640	705	2585	14676	0065	00010	2161
0050	0480	32641	704	2585	14678	0108	00028	2161
0075	0478 B	32639	698	2585	14682	0163	00063	2162
0100	0482	3262 D	691	2584	14687	0217	00112	2181
0125	0479	3275 H	632 B	2594	14692	0271	00174	2086
0150	0452 B	3327 C	537	2638	14691	0318	00240	1671
0175	0409	33465	464 B	2658	14680	0358	00306	1480
0200	0365	3362 C	361 B	2675	14668	0393	00373	1319
0225	0348 B	3369 D	313 B	2681	14666	0426	00444	1259
0250	0344	33717	282	2684	14668	0457	00521	1232
0300	0340	33812	210	2692	14677	0518	00691	1161

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0400	0350	33987	117	2705	14700	0629	01088	1046
0500	0351	34102	079	2714	14718	0731	01557	0969
0600	0344	3423 B	074	2725	14734	0824	02080	0873
0700	0334	3428 D	068	2730	14746	0910	02657	0836
0800	0320	34293	062	2732	14757	0994	03300	0815
1000	0290	34372	055	2741	14779	1151	04747	0738
1200	0265	34426	062	2748	14802	1295	06370	0682
1500	0232	34495	078	2756	14840	1491	09086	0610
2000	0198 B	34575	126	2765	14910	1781	14272	0532

C-REF-NO 002	YR 1966	DEPTH C 4220	WAVES 1 3023	AIR T 03.3	VIS 7
CONS. NO 009	MONTH 3	MXSAMPD 04	WAVES 2 3244	WET B 00.5	STN 103
LAT 49-58 N	DAY 20	NO.DPTH 14	WND-DIR 300	WW-CODE 01	
LON 144-57 W	HR 19.4	W-COLOR 10	WND-SPD 06	CLD-TPE 1	
MARSD SQ 159	C/I 1802	W-TRNSP 13	BARO 1016.0	CLD-AMT 4	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
194	0000	043 B	32709	717 B	2596	14650
194	0010	0482	32643	723	2585	14673
194	0020	0484	32648	722	2585	14675
194	0030	0483	32650	713	2586	14677
194	0050	0483	32646	716	2585	14680
194	0074	0482				
194	0099	0481 B	32651	696	2586	14687
194	0124	0482	32643	682 B	2585	14692
194	0149	0473	33109	598	2623	14698
194	0174	0409	33515	455	2662	14681
194	0199	0372	33620	390	2674	14671
194	0248	0350 B	33741	280	2686	14671
194	0298	0351	33829	188	2693	14681
194	0398	0353	33971	117	2704	14700

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0430 B	32709	717 B	2596	14650	0000	00000	2055
0010	0482	32643	723	2585	14673	0021	00001	2158
0020	0484	32648	722	2585	14675	0043	00004	2157
0030	0483	32650	713	2586	14677	0065	00010	2155
0050	0483	32646	716	2585	14680	0108	00028	2160
0075	0482	32649	709	2586	14684	0162	00063	2159
0100	0481 B	32646	696	2585	14687	0217	00112	2162
0125	0482	32658	680 B	2586	14692	0271	00174	2157
0150	0471	33129	592	2625	14698	0321	00244	1794
0175	0407	33522	452	2663	14680	0362	00311	1435
0200	0371	33623	388	2674	14671	0396	00378	1325
0225	0355 B	33693	329	2681	14669	0429	00449	1258
0250	0350 B	33745	276	2686	14671	0460	00525	1217
0300	0345 B	3384 B	190	2694	14679	0520	00693	1145
0400	0354	33973	117	2704	14701	0631	01090	1060

C-REF-NO 002	YR 1966	DEPTH C 4220	WAVES 1 2622	AIR T 05.5	VIS 5
CONS. NO 010	MONTH 3	MXSAMPD 20	WAVES 2 1834	WET B 05.5	STN 104
LAT 49-58 N	DAY 25	NO.DPTH 21	WND-DIR 260	WW-CODE 43	
LON 144-59 W	HR 19.3	W-COLOR 10	WND-SPD 04	CLD-TPE X	
MARSD SQ 159	C/I 1802	W-TRNSP 22	BARO 1005.0	CLD-AMT 9	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
193	0000	045 B	32653	717	2589	14658
193	0010	0488	32635	721	2584	14675
193	0019	0490	32656	728	2585	14678
193	0029	0489	32639	721	2584	14679
193	0048	0487	32641	716	2584	14681
193	0072	0486 B	32641	717	2585	14685
193	0097	0482	32644	722	2585	14687
193	0121	0482	32803	721	2598	14693
193	0146	0457 B	33221	580	2634	14693
193	0171	0400	33528	456	2664	14677
193	0196	0366 B	33667	380	2678	14668
193	0246	0346	33735	273	2686	14669
193	0296	0342	33801	204	2691	14677
193	0391	0352	33967	117	2703	14699
198	0497	0356	34127	Q086	2716	14720
198	0596	0345	34252	Q084	2727	14734
198	0794	0321	34316	061	2734	14757
198	0993	0288				
198	1191	0264	34445	051	2750	14801
198	1490	0230	34505	075	2757	14837
198	1987	0197	34587	139	2767	14908

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0450 B	32653	717	2589	14658	0000	00000	2117
0010	0488	32635	721	2584	14675	0022	00001	2170
0020	0490	32655	728	2585	14678	0043	00004	2158
0030	0489	32639	721	2584	14679	0065	00010	2170
0050	0487	32641	716	2584	14681	0109	00028	2168
0075	0485 B	32637	718	2584	14685	0163	00063	2172
0100	0483	32653	726	2586	14688	0218	00112	2158
0125	0480	3287 C	703	2603	14694	0270	00172	1999
0150	0448 B	33279	558	2639	14690	0316	00236	1657
0175	0393	33558	442	2667	14675	0355	00300	1394
0200	0363 B	3368 B	370	2679	14668	0388	00365	1276
0225	0350 B	3372 D	312	2684	14667	0420	00434	1231
0250	0345	33740	266	2686	14669	0451	00509	1216
0300	0342	33808	199	2692	14677	0511	00678	1166
0400	0353	33982	112	2705	14701	0623	01078	1053

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0500	0356	34131	086	2716	14721	0724	01543	0952
0600	0345	34255	084	2727	14734	0815	02057	0856
0700	0333	3430 D	073	2732	14746	0900	02620	0816
0800	0320	34318	060	2734	14758	0981	03249	0796
1000	0287	34386	050	2743	14778	1135	04666	0723
1200	0263	34447	051	2750	14802	1276	06251	0663
1500	0231	34513	072	2758	14839	1467	08896	0595
2000	0196	34588	141	2767	14910	1750	13962	0521

C-REF-NO 002 YR 1966 DEPTH C 4220 WAVES 1 2334 AIR T 06.6 VIS 7
 CONS. NO 011 MONTH 3 MXSAMPD 06 WAVES 2 2444 WET B 04.4 STN 105
 LAT 50-01 N DAY 29 NO.DPTH 16 WND-DIR 230 WW-CODE 02
 LON 144-58 W HR 19.0 W-COLOR 10 WND-SPD 08 CLD-TPE 6
 MARSD SQ 195 C/I 1802 W-TRNSP 21 BARO 992.0 CLD-AMT 5 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
190	0000	052 B	32778	713	2592	14689
190	0010	0505	32685	726	2586	14683
190	0020	0506	32679	726	2585	14685
190	0030	0505	32723	723	2589	14687
190	0050	0503	32725	719	2589	14689
190	0075	0499	32697	719	2588	14691
190	0099	0492	32734	721	2591	14693
190	0124	0482	32917	668	2607	14695
190	0149	0434 B	33416	519	2651	14686
190	0174	0393	33598	434	2670	14675
190	0199	0360	33659	361	2678	14666
190	0248	0346	33756	271	2687	14670
190	0298	0343	33822	198	2693	14678
190	0398	0350	33971	127	2704	14699
190	0494	0355	34131	081	2716	14719
190	0600	0342	34210	069	2724	14732

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0520 B	32778	713	2592	14689	0000	00000	2096
0010	0505	32685	726	2586	14683	0021	00001	2150
0020	0506	32679	726	2585	14685	0043	00004	2157
0030	0505	32723	723	2589	14687	0065	00010	2124
0050	0503	32725	719	2589	14689	0107	00028	2122
0075	0499	32697	719	2588	14691	0161	00062	2141
0100	0492	32737	720	2591	14693	0214	00110	2106
0125	0480	3294 B	662	2609	14695	0265	00168	1946
0150	0432 B	33427	515	2653	14686	0309	00230	1529
0175	0391	33602	431	2671	14675	0346	00290	1359
0200	0359	33661	359	2678	14666	0379	00354	1285
0225	0348	33714	308	2684	14666	0411	00423	1236
0250	0346	33759	268	2688	14670	0441	00498	1202
0300	0343	33825	196	2693	14678	0501	00666	1154
0400	0350	33975	126	2704	14699	0612	01064	1056
0500	0352	3412 D	081	2716	14719	0714	01531	0957
0600	0342	34210	069	2724	14732	0807	02056	0886

C-REF-NO 002	YR 1966	DEPTH C 4220	WAVES 1 2034	AIR T 05.5	VIS 6
CONS. NO 012	MONTH 4	MXSAMPD 04	WAVES 2 2044	WET B 04.4	STN 106
LAT 49-59 N	DAY 01	NO.DPTH 14	WND-DIR 200	WW-CODE 02	
LON 145-01 W	HR 19.4	W-COLOR 10	WND-SPD 12	CLD-TPE 7	
MARSD SQ 159	C/I 1802	W-TRNSP 20	BARO 1016.0	CLD-AMT 6	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
194	0000	051 B	32691	721	2586	14683
194	0010	0516	32651	715	2582	14687
194	0020	0516	32653	719	2582	14689
194	0030	0514	32663	722	2583	14690
194	0050	0512	32661	725	2583	14692
194	0075	0500	32669	Q 697	2585	14691
194	0100	0504	32673	716	2585	14697
194	0125	0499	32672	719	2586	14699
194	0150	0452	33282	563	2639	14692
194	0175	0405	33517	469	2662	14679
194	0200	0356	33658	355	2679	14665
194	0250	0346	33732	282	2685	14670
194	0300	0342	33809	210	2692	14677
194	0400	0351	33976	124	2704	14700

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0510 B	32691	721	2586	14683	0000	00000	2150
0010	0516	32651	715	2582	14687	0022	00001	2188
0020	0516	32653	719	2582	14689	0044	00005	2187
0030	0514	32663	722	2583	14690	0066	00010	2178
0050	0512	32661	725	2583	14692	0110	00028	2180
0075	0500	32669	697	2585	14691	0164	00063	2163
0100	0504	32673	716	2585	14697	0219	00112	2167
0125	0499	32672	719	2586	14699	0273	00175	2164
0150	0452	33282	563	2639	14692	0321	00242	1659
0175	0405	33517	469	2662	14679	0360	00307	1437
0200	0356	33658	355	2679	14665	0395	00373	1284
0225	0343 B	3371 D	306 C	2684	14664	0426	00442	1233
0250	0346	33732	282	2685	14670	0457	00517	1223
0300	0342	33809	210	2692	14677	0518	00687	1165
0400	0351	33976	124	2704	14700	0630	01087	1055

C-REF-NO 002 YR 1966 DEPTH C 4220 WAVES 1 1421 AIR T 07.2 VIS 7
 CONS. NO 013 MONTH 4 MXSAMPD 20 WAVES 2 1433 WET B 06.1 STN 107
 LAT 50-04 N DAY 04 NO.DPTH 21 WND-DIR 140 WW-CODE 02
 LON 144-59 W HR 19.2 W-COLOR 10 WND-SPD 01 CLD-TPE 6
 MARSD SQ 195 C/I 1802 W-TRNSP 16 BARO 1027.0 CLD-AMT 9 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
192	0000	051 B	32741	721	2590	14684
192	0010	0524 B	32662	725	2582	14691
192	0019	0522	32663	727	2582	14691
192	0029	0519	32663	722	2583	14692
192	0048	0515	32689	725	2585	14693
192	0072	0507 B	32656	708	2583	14694
192	0096	0498	32659	713	2585	14694
192	0121	0493	32671	715	2586	14696
192	0145	0457	33233	575	2635	14693
192	0169	0402	33540	456	2665	14678
192	0194	0368	33627	391	2675	14668
192	0243	0348	33763	289	2688	14670
192	0292	0348	33843	216	2694	14679
192	0390	0349	34028	125	2709	14698
198	0487	0352	34137	089	2717	14717
198	0588	0346	34192	079	2722	14732
198	0788	0323	34302	064	2733	14757
198	0985	0295		059		
198	1181	0265	34443	050	2749	14799
198	1478	0234 B		076		
198	1971	0198		133		

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0510 B	32741	721	2590	14684	0000	00000	2113
0010	0524 B	32662	725	2582	14691	0022	00001	2188
0020	0522	32663	727	2582	14691	0044	00005	2186
0030	0519	32665	722	2583	14692	0066	00010	2182
0050	0514	32687	724	2585	14693	0109	00028	2163
0075	0506 B	32655	708	2583	14694	0164	00063	2180
0100	0498	3264 D	718	2583	14694	0219	00112	2184
0125	0489	3276 F	696 B	2593	14696	0273	00174	2091
0150	0445	33316	547	2642	14690	0320	00240	1626
0175	0392	3357 B	437	2668	14675	0357	00303	1382
0200	0363	33646	377	2677	14668	0391	00367	1300
0225	0351	33719	323	2684	14667	0423	00437	1235
0250	0347	33776	277	2689	14671	0454	00512	1191
0300	0348	33859	206	2695	14680	0512	00677	1133
0400	0349	34042	119	2710	14700	0620	01061	1004

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0500	0352	34146	087	2718	14719	0718	01513	0937
0600	0345	34199	078	2723	14733	0811	02035	0897
0700	0334	34255	070	2728	14746	0899	02625	0852
0800	0321	3430 B	064	2733	14758	0983	03272	0810
1000	0293	3438 B	058	2742	14780	1139	04708	0731
1200	0263		051					
1500	0230 B		069 B					
2000	0197		139					

C-REF-NO 002 YR 1966 DEPTH C 4220 WAVES 1 0623 AIR T 05.5 VIS 7
 CONS. NO 014 MONTH 4 MXSAMPD 04 WAVES 2 0644 WET B 04.9 STN 108
 LAT 49-59 N DAY 06 NO.DPTH 14 WND-DIR 060 WW-CODE 02
 LON 145-03 W HR 19.1 W-COLOR 10 WND-SPD 11 CLD-TPE 7
 MARSD SQ 159 C/I 1802 W-TRNSP 14 BARO 1019.0 CLD-AMT 8 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
191	0000	052 B	32686	729	2584	14688
191	0010	0537	32658	707	2580	14696
191	0020	0537	32659	733	2580	14697
191	0030	0534	32658	725	2581	14698
191	0050	0530	32668	727	2582	14700
191	0075	0519	32713	709	2587	14700
191	0100	0506	32690	713	2586	14698
191	0125	0504	32737	713	2590	14702
191	0150	0469	33245	590	2634	14698
191	0175	0418	33480	591	2658	14684
191	0200	0370	33648	396	2676	14671
191	0250	0349	33818	276	2692	14672
191	0300	0343	33840	197	2694	14678
191	0400	0352	34040	123	2709	14701

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0520 B	32686	729	2584	14688	0000	00000	2165
0010	0537	32658	707	2580	14696	0022	00001	2205
0020	0537	32659	733	2580	14697	0044	00005	2205
0030	0534	32658	725	2581	14698	0066	00010	2204
0050	0530	32668	727	2582	14700	0111	00028	2194
0075	0519	32713	709	2587	14700	0165	00063	2151
0100	0506	32690	713	2586	14698	0220	00112	2156
0125	0504	32737	713	2590	14702	0273	00174	2121
0150	0469	33245	590	2634	14698	0322	00241	1705
0175	0418	33480	591	2658	14684	0362	00308	1478
0200	0370	33648	396	2676	14671	0397	00375	1306
0225	0352 B	33756	311 E	2687	14669	0428	00444	1209
0250	0349	33818	276	2692	14672	0458	00517	1161
0300	0343	33840	197	2694	14678	0516	00681	1142
0400	0352	34040	123	2709	14701	0625	01068	1009

C-REF-NO 002	YR 1966	DEPTH C 4261	WAVES 1 07X0	AIR T 05.5	VIS 7
CONS. NO 015	MONTH 4	MXSAMPD 15	WAVES 2 2721	WET B 04.4	STN NN
LAT 49-18 N	DAY 11	NO.DPTH 20	WND-DIR 070	WW-CODE 02	
LON 143-55 W	HR 03.9	W-COLOR 10	WND-SPD 03	CLO-TPE 4	
MARSD SQ 159	C/I 1802	W-TRNSP 10	BARO 1018.0	CLO-AMT 2	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
039	0000	062 B	32706		2574	14729
039	0010	0616	32678		2572	14728
039	0020	0600	32674		2574	14723
039	0030	0597	32693		2576	14724
039	0050	0564	32665		2578	14713
039	0075	0552	32724		2584	14713
039	0100	0538	32668		2581	14711
039	0125	0527	32680		2583	14711
039	0150	0501	33241		2630	14712
039	0175	0452	33579		2662	14700
039	0200	0403	33707		2678	14685
039	0250	0382	33812		2688	14686
039	0300	0369	33860		2693	14689
039	0400	0364	33994		2704	14706
046	0496	0365	34125		2715	14724
046	0597	0356	34196		2721	14738
046	0797	0328	34323		2734	14761
046	0997	0294	34399		2743	14780
046	1193	0266				
046	1493	0235 B	34509		2757	14840

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0620 B	32706		2574	14729	0000	00000	2263
0010	0616	32678		2572	14728	0023	00001	2280
0020	0600	32674		2574	14723	0046	00005	2266
0030	0597	32693		2576	14724	0068	00011	2249
0050	0564	32665		2578	14713	0114	00029	2234
0075	0552	32724		2584	14713	0169	00065	2179
0100	0538	32668		2581	14711	0224	00114	2208
0125	0527	32680		2583	14711	0280	00178	2189
0150	0501	33241		2630	14712	0329	00247	1742
0175	0452	33579		2662	14700	0369	00313	1439
0200	0403	33707		2678	14685	0404	00379	1294
0225	0386 B	3378 B		2685	14683	0435	00449	1227
0250	0382	33812		2688	14686	0466	00523	1198
0300	0369	33860		2693	14689	0525	00690	1153
0400	0364	33994		2704	14706	0637	01088	1055
0500	0365	34129		2715	14724	0739	01557	0963

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0600	0356	34198		2722	14738	0833	02091	0909
0700	0343	34266		2728	14750	0922	02684	0853
0800	0327	34324		2734	14761	1006	03328	0800
1000	0294	3441 B		2744	14781	1159	04737	0713
1200	0265	3447 B		2752	14803	1297	06292	0648
1500	0234 B	34509		2757	14841	1487	08926	0601

C-REF-NO 002	YR 1966	DEPTH C 4297	WAVES 1 00X0	AIR T 06.6	VIS 7
CONS. NO 016	MONTH 4	MXSAMPD 15	WAVES 2 0422	WET B 04.9	STN NS
LAT 49-18 N	DAY 11	NO.DPTH 20	WND-DIR 040	WW-CODE C2	
LON 145-00 W	HR 09.4	W-COLOR	WND-SPD 02	CLD-TPE 0	
MARSD SQ 159	C/I 1802	W-TRNSP	BARO 1019.0	CLD-AMT 1	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
094	0000	055 B	32714		2583	14700
094	0010	0599	32675		2574	14721
094	0020	0601	32698		2576	14724
094	0030	0595	32800		2584	14725
094	0050	0565	32681		2579	14714
094	0075	0524	32699		2585	14702
094	0100	0514				
094	0125	0508	32895		2602	14706
094	0150	0477	33362		2643	14703
094	0175	0462	33626		2665	14705
094	0200	0446	33711		2674	14703
094	0250	0404	33824		2687	14696
094	0300	0372	33814		2689	14690
094	0400	0366	33953		2701	14706
098	0492	0373	34074		2710	14726
098	0594	0360	34172		2719	14738
098	0794	0328	34290		2731	14760
098	0990	0299	34371		2741	14781
098	1183	0267	34436		2749	14800
098	1479	0236	34506		2757	14838

*WAVES NOT COMPATIBLE WITH WIND

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0550 B	32714		2583	14700	0000	00000	2177
0010	0599	32675		2574	14721	0022	00001	2263
0020	0601	32698		2576	14724	0045	00005	2249
0030	0595	32800		2584	14725	0067	00010	2167
0050	0565	32681		2579	14714	0111	00029	2223
0075	0524	32699		2585	14702	0167	00064	2167
0100	0514	3272 I		2588	14702	0221	00112	2141
0125	0508	32895		2602	14706	0273	00173	2007
0150	0477	33362		2643	14703	0319	00236	1626
0175	0462	33626		2665	14705	0357	00300	1414
0200	0446	33711		2674	14703	0392	00367	1336
0225	0425	33780		2681	14700	0425	00438	1264
0250	0404	33824		2687	14696	0456	00514	1212
0300	0372	33814		2689	14690	0516	00685	1190
0400	0366	33953		2701	14706	0631	01096	1088

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0500	0372	34083		2711	14727	0737	01582	1005
0600	0359	34177		2719	14739	0835	02132	0929
0700	0343	34243		2726	14750	0926	02739	0870
0800	0327	34293		2732	14760	1011	03398	0823
1000	0297	34375		2741	14782	1170	04857	0743
1200	0268	34441		2749	14804	1313	06475	0673
1500	0234	34510		2757	14840	1507	09153	0601

C-REF-NO 002	YR 1966	DEPTH C 4297	WAVES 1 00X0	AIR T 04.4	VIS 7
CONS. NO 017	MONTH 4	MXSAMPD 15	WAVES 2 0454	WET B 03.3	STN NC
LAT 49-18 N	DAY 11	NO.DPTH 20	WND-DIR CALM	WW-CODE 03	
LON 146-05 W	HR 15.4	W-COLOR	WND-SPD 00	CLD-TPE 6	
MARSD SQ 159	C/I 1802	W-TRNSP	BARO 1019.0	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
154	0000	054 B	32723		2585	14696
154	0010	0579	32706		2579	14714
154	0020	0580	32705		2579	14716
154	0030	0574	32702		2579	14715
154	0050	0559	32707		2581	14712
154	0075	0554 B	32716		2583	14714
154	0100	0546 B	32723		2584	14715
154	0125	0530 B	32831		2595	14714
154	0150	0523	33221		2626	14720
154	0175	0455	33521		2658	14700
154	0200	0403	33657		2674	14685
154	0250	0358	33737		2685	14675
154	0300	0340	33807		2692	14676
154	0400	0354	33967		2703	14701
160	0500	0360	34070		2711	14722
160	0600	0354	34166		2719	14737
160	0800	0330	34300		2732	14762
160	1000	0295	34385		2742	14781
160	1200	0262	34451		2750	14801
160	1500	0234 B	34516		2758	14841

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0540 B	32723		2585	14696	0000	00000	2159
0010	0579	32706		2579	14714	0022	00001	2216
0020	0580	32705		2579	14716	0044	00005	2219
0030	0574	32702		2579	14715	0067	00010	2216
0050	0559	32707		2581	14712	0111	00029	2197
0075	0554 B	32716		2583	14714	0166	00064	2187
0100	0546 B	32723		2584	14715	0221	00113	2176
0125	0530 B	32831		2595	14714	0275	00175	2079
0150	0523	33221		2626	14720	0323	00243	1782
0175	0455	33521		2658	14700	0364	00311	1485
0200	0403	33657		2674	14685	0400	00379	1332
0225	0374	3371 D		2681	14677	0433	00450	1262
0250	0358	33737		2685	14675	0464	00527	1231
0300	0340	33807		2692	14676	0524	00697	1164
0400	0354	33967		2703	14701	0637	01099	1065
0500	0360	34070		2711	14721	0741	01580	1002

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0600	0354	34166		2719	14737	0839	02130	0932
0700	0344	34241		2726	14750	0930	02738	0872
0800	0330	34300		2732	14762	1016	03397	0821
1000	0295	34385		2742	14781	1173	04844	0733
1200	0262	34451		2750	14801	1314	06434	0660
1500	0234 B	34516		2758	14841	1505	09076	0596

C-REF-NO 002 YR 1966 DEPTH C 3730 WAVES 1 2522 AIR T 06.6 VIS 7
 CONS. NO 018 MONTH 4 MXSAMPD 15 WAVES 2 0454 WET B 04.9 STN OG
 LAT 50-00 N DAY 11 NO.DPTH 20 WND-DIR 250 WW-CODE C2
 LON 146-06 W HR 21.2 W-COLOR 10 WND-SPD 03 CLD-TPE 4
 MARSD SQ 195 C/I 1802 W-TRNSP 13 BARO 1018.0 CLD-AMT 6 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
212	0000	055 B	32717		2583	14700
212	0010	0566	32690		2579	14708
212	0019	0563	32686		2579	14708
212	0029	0560	32689		2580	14709
212	0049	0549	32688		2581	14707
212	0073	0541	32700		2583	14708
212	0098	0534	32706		2584	14710
212	0122	0526	32729		2587	14711
212	0147	0478	33298		2637	14702
212	0171	0441	33548		2661	14694
212	0196	0412	33673		2674	14688
212	0246	0389	33765		2684	14688
212	0295	0372	33824		2690	14689
212	0394	0366	33982		2703	14705
218	0495	0358	34070		2711	14720
218	0598	0345	34164		2720	14733
218	0797	0323	34290		2732	14758
218	0995	0298	34374		2741	14781
218	1194	0264	34443		2749	14801
218	1496	0236 B	34508		2757	14841

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0550 B	32717		2583	14700	0000	00000	2174
0010	0566	32690		2579	14708	0022	00001	2214
0020	0563	32686		2579	14708	0044	00005	2214
0030	0559	32689		2580	14709	0067	00010	2209
0050	0549	32688		2581	14707	0111	00028	2199
0075	0540	32700		2583	14708	0166	00064	2184
0100	0534	3270 B		2584	14710	0221	00113	2181
0125	0521	3279 E		2592	14710	0275	00175	2099
0150	0473	33341		2641	14701	0322	00241	1637
0175	0436	33574		2664	14693	0361	00305	1425
0200	0409	33685		2675	14688	0395	00371	1317
0225	0395	3374 C		2681	14687	0428	00442	1263
0250	0387	33770		2684	14688	0459	00519	1235
0300	0371	33832		2691	14690	0520	00690	1176
0400	0366	33988		2704	14706	0633	01093	1061
0500	0357	34075		2712	14720	0737	01571	0996

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0600	0345	34166		2720	14733	0834	02117	0922
0700	0334	34236		2727	14746	0924	02719	0865
0800	0323	34291		2732	14758	1009	03375	0819
1000	0297	34376		2741	14782	1167	04830	0742
1200	0268 B	34444		2749	14804	1310	06445	0672
1500	0236 B	34509		2757	14841	1504	09126	0603

C-REF-NO 002 YR 1966 DEPTH C 4352 WAVES 1 3022 AIR T 03.8 VIS 6
 CONS. NO 019 MONTH 4 MXSAMPD 15 WAVES 2 0654 WET B 02.7 STN GG
 LAT 50-42 N DAY 12 NO.DPTH 20 WND-DIR 290 WW-CODE 03
 LON 146-08 W HR 03.8 W-COLOR WND-SPD 09 CLD-TPE 6
 MARSD SQ 195 C/I 1802 W-TRNSP BARO 1015.0 CLD-AMT 7 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
038	0000	048 B	32719		2591	14671
038	0010	0531	32691		2583	14694
038	0020	0523	32687		2584	14692
038	0030	0510	32681		2585	14688
038	0050	0487	32668		2587	14682
038	0075	0480	32685		2589	14683
038	0100	0474	32709		2591	14685
038	0125	0424	32769		2601	14669
038	0150	0415	33359		2649	14677
038	0175	0392	33546		2666	14674
038	0200	0361	33651		2677	14667
038	0250	0336	33724		2686	14665
038	0300	0332	33823		2694	14673
038	0400	0348	33998		2706	14699
044	0500	0348	34123		2716	14717
044	0600	0339	34203		2724	14731
044	0800	0309	34331		2737	14753
044	0998	0288	34397		2744	14778
044	1195	0259	34452		2751	14799
044	1493	0231				

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0480 B	32719		2591	14671	0000	00000	2098
0010	0531	32691		2583	14694	0021	00001	2174
0020	0523	32687		2584	14692	0043	00004	2169
0030	0510	32681		2585	14688	0065	00010	2161
0050	0487	32668		2587	14682	0109	00028	2148
0075	0480	32685		2589	14683	0162	00062	2130
0100	0474	32709		2591	14685	0216	00110	2108
0125	0424	32769		2601	14669	0268	00170	2013
0150	0415	33359		2649	14677	0313	00233	1563
0175	0392	33546		2666	14674	0350	00295	1402
0200	0361	33651		2677	14667	0384	00360	1295
0225	0344	3370 C		2683	14664	0416	00430	1245
0250	0336	33724		2686	14665	0447	00506	1219
0300	0332	33823		2694	14673	0507	00673	1144
0400	0348	33998		2706	14699	0617	01066	1036
0500	0348	34123		2716	14717	0717	01528	0950

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0600	0339	34203		2724	14731	0810	02051	0888
0700	0324	34274		2731	14742	0896	02629	0827
0800	0309	34331		2737	14753	0977	03253	0775
1000	0288	3441 B		2744	14778	1128	04637	0709
1200	0262							
1500	0230							

C-REF-NO 002	YR 1966	DEPTH C 4279	WAVES 1 2834	AIR T 04.9	VIS 6
CONS. NO 020	MONTH 4	MXSAMPD 15	WAVES 2 2844	WET B 02.2	STN GS
LAT 50-42 N	DAY 12	NO.DPTH 20	WND-DIR 280	WW-CODE 85	
LON 145-00 W	HR 09.5	W-COLOR	WND-SPD 10	CLD-TPE 7	
MARSD SQ 195	C/I 1802	W-TRNSP	BARO 1011.0	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
095	0000	051 B	32693		2586	14684
095	0010	0540	32674		2581	14697
095	0019	0539	32669		2581	14698
095	0029	0538	32674		2581	14700
095	0048	0520	32658		2582	14695
095	0073	0492	32657		2585	14688
095	0097	0485	32663		2586	14689
095	0121	0459	32758		2597	14683
095	0146	0415	33363		2649	14677
095	0170	0391	33501		2663	14673
095	0194	0365	33605		2673	14667
095	0243	0338	33714		2685	14665
095	0291	0340	33807		2692	14675
095	0390	0346	33975		2705	14696
099	0485	0354	34091		2713	14717
099	0582	0342	34173		2721	14729
099	0776	0320	34298		2733	14753
099	0971	0290	34380		2742	14774
099	1167	0264	34444		2750	14797
099	1472	0241 B	34486		2755	14838

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0510 B	32693		2586	14684	0000	00000	2149
0010	0540	32674		2581	14697	0022	00001	2197
0020	0539	32669		2581	14698	0044	00005	2200
0030	0537	32673		2581	14699	0066	00010	2196
0050	0517	32657		2582	14694	0110	00028	2188
0075	0491	32656		2585	14688	0165	00063	2164
0100	0483	3266 C		2586	14688	0219	00112	2154
0125	0452	3285 G		2605	14682	0271	00172	1978
0150	0410	3340 C		2653	14676	0316	00233	1526
0175	0385	33525		2665	14671	0353	00295	1411
0200	0360	33622		2675	14666	0387	00361	1315
0225	0344	3368 B		2682	14664	0419	00432	1256
0250	0337	33728		2686	14666	0450	00508	1217
0300	0340	33824		2693	14677	0510	00676	1152
0400	0347	33989		2706	14698	0621	01071	1042
0500	0353	34105		2714	14719	0722	01538	0968

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0600	0340	34187		2722	14731	0817	02071	0901
0700	0329	34255		2729	14744	0905	02659	0846
0800	0316	34310		2734	14756	0988	03300	0799
1000	0286	34391		2743	14777	1142	04714	0718
1200	0262	34449		2750	14801	1282	06290	0660
1500	0240 B	34487		2755	14843	1477	08998	0624

C-REF-NO 002	YR 1966	DEPTH C 3968	WAVES 1 2834	AIR T 01.1	VIS 7
CONS. NO 021	MONTH 4	MXSAMPD 15	WAVES 2 2945	WET B 01.1	STN GN
LAT 50-42 N	DAY 12	NO.DPTH 20	WND-DIR 290	WW-CODE 86	
LON 143-52 W	HR 15.4	W-COLOR	WND-SPD 12	CLD-TPE 4	
MARSD SQ 195	C/I 1802	W-TRNSP	BARO 1007.0	CLD-AMT 6	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
154	0000	050 B	32673		2586	14679
154	0010	0520	32646		2581	14689
154	0019	0522	32645		2581	14691
154	0029	0520	32642		2581	14692
154	0048	0484	32640		2585	14680
154	0073	0468	32649		2587	14677
154	0097	0454 B	32661		2590	14676
154	0121	0454	32688		2592	14680
154	0145	0439	33172		2632	14684
154	0169	0390	33514		2664	14672
154	0193	0361	33651		2677	14666
154	0242	0358	33777		2688	14674
154	0290	0370	33889		2696	14689
154	0389	0363	34037		2708	14704
160	0473	0364	34117		2714	14719
160	0572	0353	34195		2722	14732
160	0770	0325	34299		2732	14755
160	0969	0294	34390		2743	14776
160	1170	0263	34447		2750	14797
160	1480	0232 B	34504		2757	14836

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0500 B	32673		2586	14679	0000	00000	2153
0010	0520	32646		2581	14689	0022	00001	2196
0020	0522	32645		2581	14691	0044	00005	2200
0030	0518	32642		2581	14691	0066	00010	2199
0050	0482	32640		2585	14679	0110	00028	2163
0075	0467	32650		2587	14677	0164	00063	2142
0100	0454 B	3265 C		2589	14676	0218	00111	2130
0125	0453	3276 E		2597	14681	0271	00172	2052
0150	0429	33258		2639	14682	0317	00237	1654
0175	0381	3356 B		2668	14670	0356	00300	1380
0200	0358	3368 B		2680	14666	0389	00364	1273
0225	0354	3375 C		2686	14669	0420	00433	1218
0250	0360	33797		2689	14676	0451	00507	1187
0300	0370	33908		2697	14691	0509	00671	1118
0400	0363	34049		2709	14706	0616	01055	1013
0500	0362	34140		2716	14723	0716	01512	0951

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0600	0349	34212		2723	14735	0809	02037	0892
0700	0336	34267		2729	14747	0896	02622	0844
0800	0320	34314		2734	14758	0980	03262	0800
1000	0289	34400		2744	14779	1133	04673	0715
1200	0261	34459		2751	14801	1271	06236	0653
1500	0230 B	34505		2757	14839	1462	08873	0599

C-REF-NO 002	YR 1966	DEPTH C 4114	WAVES 1 2834	AIR T 03.3	VIS 7
CONS. NO 022	MONTH 4	MXSAMPD 15	WAVES 2 2845	WET B. 02.2	STN ON
LAT 50-00 N	DAY 12	NO.DPTH 20	WND-DIR 280	WW-CODE 02	
LON 143-54 W	HR 20.7	W-COLOR 10	WND-SPD 15	CLD-TPE 4	
MARSD SQ 195	C/I 1802	W-TRNSP 09	BARO 1008.0	CLD-AMT 6	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
207	0000	052 B	32678		2584	14687
207	0010	0597	32665		2574	14720
207	0020	0598	32666		2574	14722
207	0030	0596	32666		2574	14723
207	0050	0534	32639		2579	14701
207	0075	0534	32645		2579	14705
207	0100	0522	32672		2583	14705
207	0125	0498	33098		2619	14704
207	0150	0444	33480		2655	14691
207	0175	0439	33640		2669	14695
207	0200	0403	33699		2677	14685
207	0250	0370	33761		2685	14680
207	0300	0367	33830		2691	14688
207	0400	0363	33965		2702	14705
212	0489	0360	34119		2715	14720
212	0589	0358	34193		2721	14737
212	0786	0326	34310		2733	14758
212	0987	0294				
212	1187	0263	34445		2750	14799
212	1492	0236	34513		2757	14840

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0520 B	32678		2584	14687	0000	00000	2171
0010	0597	32665		2574	14720	0022	00001	2268
0020	0598	32666		2574	14722	0045	00005	2269
0030	0596	32666		2574	14723	0068	00011	2268
0050	0534	32639		2579	14701	0113	00029	2220
0075	0534	32645		2579	14705	0169	00065	2218
0100	0522	32672		2583	14705	0224	00115	2187
0125	0498	33098		2619	14704	0275	00173	1844
0150	0444	33480		2655	14691	0317	00231	1502
0175	0439	33640		2669	14695	0354	00292	1379
0200	0403	33699		2677	14685	0387	00357	1300
0225	0381	33734		2682	14681	0420	00427	1254
0250	0370	33761		2685	14680	0451	00503	1224
0300	0367	33830		2691	14688	0511	00673	1173
0400	0363	33965		2702	14705	0625	01079	1076
0500	0360	34130		2716	14722	0727	01550	0957

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0600	0357	34200		2722	14738	0822	02082	0909
0700	0342	34263		2728	14750	0911	02676	0854
0800	0324	34316		2734	14759	0994	03321	0802
1000	0292	3439 B		2743	14780	1149	04741	0723
1200	0264	3446 C		2751	14802	1288	06315	0655
1500	0235	34514		2758	14841	1479	08957	0599

C-REF-NO 002	YR 1966	DEPTH C 4220	WAVES 1 2933	AIR T 04.4	VIS 7
CONS. NO 023	MONTH 4	MXSAMPD 42	WAVES 2 2946	WET B 01.6	STN 109
LAT 50-02 N	DAY 13	NO.DPTH 26	WND-DIR 290	WW-CODE 02	
LON 145-02 W	HR 19.3	W-COLOR 10	WND-SPD 05	CLD-TPE 6	
MARSD SQ 195	C/I 1802	W-TRNSP 18	BARO 1007.0	CLD-AMT 6	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
193	0000	049 B	32710	720	2590	14675
193	0010	0542	32667	738	2580	14698
193	0020	0544	32665	718	2580	14700
193	0029	0542	32663	720	2580	14701
193	0049	0540	32666		2580	14704
193	0073	0522	32663	706	2582	14700
193	0097	0510	32663	710	2584	14699
193	0122	0507	32785	682	2594	14703
193	0146	0455	33274	555	2638	14692
193	0171	0436	33431	506	2652	14691
193	0195	0380	33622	400	2673	14674
193	0244	0350	33739	276	2686	14671
193	0292	0346	33818	202	2692	14678
193	0390	0352	33970	122	2704	14699
193	0491	0353	34092	078	2713	14717
193	0595	0347	34181	072	2721	14733
203	0792	0320	34309	058	2734	14756
203	0993	0290	34390	053	2743	14778
203	1189	0260	34452	Q 070	2751	14799
203	1486	0229	34514	072	2758	14836
203	1985	0198	34583	131	2766	14908
203	2480	0174	34629	198	2772	14983
203	2980	0159	34650	256	2774	15063
203	3492	0154	34672	302	2777	15150
203	3990	0152	34677	325	2777	15237
203	4200	0152 B	34686	325	2778	15275

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0490 B	32710	720	2590	14675	0000	00000	2115
0010	0542	32667	738	2580	14698	0022	00001	2204
0020	0544	32665	718	2580	14700	0044	00005	2209
0030	0542	32663	720	2580	14701	0066	00010	2209
0050	0539	32666	714 B	2581	14703	0111	00028	2206
0075	0521	32661	707	2582	14700	0166	00064	2192
0100	0511	3266 B	710	2584	14700	0221	00113	2181
0125	0501	3285 D	667	2599	14702	0274	00174	2036
0150	0452	3331 C	546	2641	14692	0320	00239	1638
0175	0427	33465	489	2656	14688	0360	00305	1498

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0200	0374	3364 B	383	2676	14672	0395	00373	1313
0225	0353 B	3372 D	314	2684	14668	0427	00443	1239
0250	0349	33750	265	2687	14671	0458	00518	1212
0300	0346	33831	193	2693	14679	0518	00686	1152
0400	0352	33984	116	2705	14701	0629	01083	1051
0500	0353	34101	077	2714	14719	0731	01553	0971
0600	0346	34185	072	2721	14734	0826	02089	0909
0700	0334	34256	064	2728	14746	0915	02682	0851
0800	0319	34313	057	2734	14757	0999	03324	0799
1000	0289	34393	054	2743	14779	1152	04740	0721
1200	0259	34455	070	2751	14800	1292	06309	0653
1500	0228	34516	073	2758	14838	1481	08922	0589
2000	0197	34585	133	2766	14910	1763	13983	0524
2500	0173	34630	201	2772	14986	2019	19893	0480
3000	0159	34651	258	2775	15067	2259	26705	0461
3500	0154	34672	303	2777	15152	2493	34569	0454
4000	0152	34681	324	2777	15239	2727	43656	0458

C-REF-NO 002	YR 1966	DEPTH C 4220	WAVES 1 1821	AIR T 05.5	VIS 7
CONS. NO 024	MONTH 4	MXSAMP 04	WAVES 2 1832	WET B 03.3	STN 110
LAT 49-58 N	DAY 15	NO.DPTH 14	WNO-DIR 180	WW-CODE 02	
LON 144-59 W	HR 19.2	W-COLOR 10	WNO-SPD 03	CLD-TPE 4	
MARSD SQ 159	C/I 1802	W-TRNSP 16	BARO 1038.0	CLD-AMT 6	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
192	0000	050 B	32682	726	2586	14679
192	0010	0540	32660	726	2580	14697
192	0020	0542	32660	694	2580	14700
192	0030	0540	32660	716	2580	14700
192	0050	0539	32652	730	2579	14703
192	0075	0519	32664	703	2583	14699
192	0100	0501	32660	686	2584	14696
192	0125	0494	32923	628	2606	14700
192	0150	0454	33305	540	2641	14693
192	0175	0408	33546	454	2664	14681
192	0200	0371	33639	380	2676	14671
192	0250	0350	33745	273	2686	14672
192	0300	0348	33843	191	2694	14680
192	0400	0353	33994	122	2706	14701

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0500 B	32682	726	2586	14679	0000	00000	2146
0010	0540	32660	726	2580	14697	0022	00001	2207
0020	0542	32660	694	2580	14700	0044	00005	2210
0030	0540	32660	716	2580	14700	0066	00010	2209
0050	0539	32652	730	2579	14703	0111	00029	2216
0075	0519	32664	703	2583	14699	0166	00064	2187
0100	0501	32660	686	2584	14696	0221	00113	2173
0125	0494	32923	628	2606	14700	0273	00173	1971
0150	0454	33305	540	2641	14693	0319	00237	1644
0175	0408	33546	454	2664	14681	0357	00301	1418
0200	0371	33639	380	2676	14671	0392	00367	1313
0225	0355	3370 B	322	2682	14669	0424	00437	1254
0250	0350	33745	273	2686	14672	0455	00513	1217
0300	0348	33843	191	2694	14680	0515	00681	1145
0400	0353	33994	122	2706	14701	0625	01076	1044

C-REF-NO 002	YR 1966	DEPTH C 3909	WAVES 1 00X0	AIR T 06.6	VIS 5
CONS. NO 025	MONTH 4	MXSAMPD 04	WAVES 2 2431	WET B 05.5	STN 012
LAT 49-49 N	DAY 18	NO.DPTH 14	WND-DIR CALM	WW-CODE 12	
LON 142-40 W	HR 07.0	W-COLOR	WND-SPD 00	CLD-TPE X	
MARSD SQ 159	C/I 1802	W-TRNSP	BARO 1037.0	CLD-AMT 9	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
C70	0000	056 B	32685		2580	14704
070	0010	0571	32668		2577	14710
C70	0020	0569	32673		2578	14711
070	0030	0560	32662		2578	14709
070	0050	0550	32667		2579	14708
070	0075	0524	32663		2582	14701
070	0100	0499	32660		2585	14695
070	0125	0476	32680		2589	14690
070	0150	0481	33272		2635	14704
070	0175	0463	33547		2659	14704
070	0200	0426	33691		2674	14695
070	0250	0391	33754		2683	14689
070	0300	0372	33820		2690	14690
070	0400	0365	33965		2702	14706

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0560 B	32685		2580	14704	0000	00000	2210
0010	0571	32668		2577	14710	0022	00001	2236
0020	0569	32673		2578	14711	0045	00005	2231
0030	0560	32662		2578	14709	0067	00010	2230
0050	0550	32667		2579	14708	0112	00029	2217
0075	0524	32663		2582	14701	0168	00064	2194
0100	0499	32660		2585	14695	0222	00114	2171
0125	0476	32680		2589	14690	0277	00176	2134
0150	0481	33272		2635	14704	0325	00243	1697
0175	0463	33547		2659	14704	0365	00310	1474
0200	0426	33691		2674	14695	0400	00377	1330
0225	0404	3374 D		2680	14690	0433	00449	1272
0250	0391	33754		2683	14689	0465	00526	1251
0300	0372	33820		2690	14690	0526	00699	1186
0400	0365	33965		2702	14706	0640	01107	1078

C-REF-NO 002	YR 1966	DEPTH C 3880	WAVES 1 3321	AIR T 05.5	VIS 3
CONS. NO 026	MONTH 4	MXSAMPC 15	WAVES 2 3332	WET B 05.5	STN 011
LAT 49-41 N	DAY 18	NO.DPTH 20	WND-DIR 330	WW-CODE 45	
LON 140-40 W	HR 19.9	W-COLOR 10	WND-SPD 03	CLD-TPE X	
MARSD SQ 159	C/I 1802	W-TRNSP 20	BARO 1036.0	CLD-AMT 9	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
199	0000	069 B	32646		2560	14756
199	0010	0606	32617		2569	14723
199	0020	0596	32621		2570	14721
199	0029	0583	32613		2571	14717
199	0049	0578	32612		2572	14718
199	0073	0552	32614		2575	14712
199	0098	0537	32643		2579	14710
199	0122	0521	32843		2597	14710
199	0147	0493	33333		2639	14709
199	0172	0455	33574		2662	14701
199	0196	0423	33682		2674	14693
199	0246	0389	33769		2684	14688
199	0296	0370	33826		2691	14689
199	0396	0365	33968		2702	14705
202	0496	0373	34094		2712	14727
202	0595	0362	34181		2720	14740
202	0794	0331	34311		2733	14761
202	0993	0296	34393		2743	14781
202	1193	0265 B	34443		2749	14801
202	1493	0233	34511		2758	14839

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0690 B	32646		2560	14756	0000	00000	2394
0010	0606	32617		2569	14723	0024	00001	2314
0020	0596	32621		2570	14721	0047	00005	2301
0030	0583	32613		2571	14717	0070	00011	2293
0050	0577	32612		2572	14718	0116	00030	2289
0075	0551	32612		2575	14711	0173	00066	2261
0100	0536	32651		2580	14710	0230	00117	2218
0125	0518	3290 C		2601	14710	0283	00178	2014
0150	0489	33372		2642	14708	0329	00242	1631
0175	0451	33592		2664	14700	0367	00306	1427
0200	0419	33693		2675	14692	0402	00372	1321
0225	0400	3375 B		2681	14689	0435	00443	1264
0250	0387	33774		2685	14688	0466	00520	1232
0300	0369	33831		2691	14689	0527	00691	1175
0400	0365	33974		2703	14706	0640	01096	1072
0500	0373	34098		2712	14727	0744	01576	0994

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0600	0361	34185		2720	14740	0841	02123	0925
0700	0347	34256		2727	14751	0932	02725	0864
0800	0330	34314		2733	14762	1016	03377	0810
1000	0295	34395		2743	14781	1172	04807	0725
1200	0265	3445 B		2750	14803	1312	06393	0663
1500	0232	34512		2758	14840	1504	09044	0597

C-REF-NO 002 YR 1966 DEPTH C 3889 WAVES 1 3421 AIR T 06.6 VIS 7
 CONS. NO 027 MONTH 4 MXSAMPD 04 WAVES 2 3521 WET B 06.6 STN 010
 LAT 49-34 N DAY 19 NO.DPTH 14 WND-DIR 350 WW-CODE 44
 LON 138-40 W HR 02.8 W-COLOR 10 WND-SPD 02 CLD-TPE 7
 MARSD SQ 158 C/I 1802 W-TRNSP 13 BARO 1032.0 CLD-AMT 7 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
028	0000	071 B	32681		2560	14764
028	0010	0626	32657		2569	14732
028	0020	0617	32651		2570	14730
028	0030	0611	32649		2571	14729
028	0050	0603	32657		2572	14729
028	0075	0576	32658		2576	14722
028	0100	0568	32667		2577	14723
028	0125	0542	32733		2586	14718
028	0150	0542	33413		2639	14731
028	0175	0505	33602		2658	14722
028	0200	0463	33702		2671	14710
028	0250	0414	33784		2683	14699
028	0300	0385	33841		2690	14696
028	0400	0379	33995		2703	14712

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0710 B	32681		2560	14764	0000	00000	2393
0010	0626	32657		2569	14732	0024	00001	2308
0020	0617	32651		2570	14730	0047	00005	2303
0030	0611	32649		2571	14729	0070	00011	2299
0050	0603	32657		2572	14729	0116	00030	2285
0075	0576	32658		2576	14722	0173	00066	2256
0100	0568	32667		2577	14723	0230	00117	2243
0125	0542	32733		2586	14718	0285	00181	2166
0150	0542	33413		2639	14731	0334	00248	1660
0175	0505	33602		2658	14722	0373	00314	1479
0200	0463	33702		2671	14710	0409	00382	1361
0225	0434	3375 B		2678	14703	0442	00455	1293
0250	0414	33784		2683	14699	0474	00533	1252
0300	0385	33841		2690	14696	0536	00706	1183
0400	0379	33995		2703	14712	0650	01112	1070

C-REF-NO 002	YR 1966	DEPTH C 3774	WAVES 1 3222	AIR T 06.1	VIS 3
CONS. NO 028	MONTH 4	MXSAMPD 06	WAVES 2 3232	WET B 05.5	STN 009
LAT 49-26 N	DAY 19	NO.DPTH 16	WND-DIR 320	WW-CODE 45	
LON 136-40 W	HR 09.0	W-COLOR	WND-SPD 07	CLD-TPE X	
MARSD SQ 158	C/I 1802	W-TRNSP	BARO 1029.0	CLD-AMT 9	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
090	0000	070 B	32552		2551	14758
090	0010	0628	32533		2559	14731
090	0020	0629	32532		2559	14733
090	0030	0627	32538		2560	14734
090	0050	0601	32537		2563	14727
090	0075	0597	32536		2563	14729
090	0100	0578 B	32848		2590	14730
090	0125	0570	33483		2641	14739
090	0150	0553	33702		2661	14739
090	0175	0572	33825		2668	14753
090	0200	0534	33846		2674	14742
090	0250	0499	33890		2682	14736
090	0300	0430	33887		2689	14716
090	0400	0425	34012		2700	14732
090	0500	0413	34128		2710	14745
090	0600	0388	34205		2719	14752

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0700 B	32552		2551	14758	0000	00000	2477
0010	0628	32533		2559	14731	0025	00001	2403
0020	0629	32532		2559	14733	0049	00005	2406
0030	0627	32538		2560	14734	0073	00011	2401
0050	0601	32537		2563	14727	0121	00031	2373
0075	0597	32536		2563	14729	0181	00069	2372
0100	0578 B	32848		2590	14730	0237	00119	2119
0125	0570	33483		2641	14739	0284	00173	1637
0150	0553	33702		2661	14739	0323	00228	1457
0175	0572	33825		2668	14753	0359	00288	1390
0200	0534	33846		2674	14742	0394	00354	1333
0225	0515 B	33871		2679	14738	0427	00426	1295
0250	0499	33890		2682	14736	0459	00504	1265
0300	0430	33887		2689	14716	0521	00679	1196
0400	0425	34012		2700	14732	0637	01095	1106
0500	0413	34128		2710	14745	0744	01587	1015
0600	0388	34205		2719	14752	0843	02144	0939

C-REF-NO 002	YR 1966	DEPTH C 3549	WAVES 1 3022	AIR T 05.5	VIS 5
CONS. NO 029	MONTH 4	MXSAMPD 04	WAVES 2 3333	WET B 05.5	STN 008
LAT 49-17 N	DAY 19	NO.DPTH 14	WND-DIR 330	WW-CODE 11	
LON 134-40 W	HR 16.8	W-COLOR 10	WND-SPD 07	CLD-TPE 6	
MARSD SQ 158	C/I 1802	W-TRNSP 14	BARO 1027.0	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
168	0000	070 B	32536		2550	14758
168	0010	0648	32524		2556	14739
168	0019	0650				
168	0029	0648	32527		2556	14742
168	0048	0648	32532		2557	14745
168	0071	0631	32550		2560	14742
168	0095	0609	32584		2566	14738
168	0119	0562	33290		2627	14732
168	0143	0538	33539		2650	14730
168	0168	0508	33698		2666	14724
168	0193	0482	33753		2673	14718
168	0242	0447	33796		2680	14712
168	0292	0418	33867		2689	14709
168	0392	0399	33985		2700	14719

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0700 B	32536		2550	14758	0000	00000	2489
0010	0648	32524		2556	14739	0025	00001	2434
0020	0650	32523		2556	14741	0049	00005	2438
0030	0648	32527		2556	14742	0074	00011	2434
0050	0647	32533		2557	14745	0123	00031	2431
0075	0628	3253 E		2559	14742	0184	00070	2412
0100	0599	3272 I		2578	14737	0242	00123	2238
0125	0555	3338 D		2635	14732	0292	00179	1698
0150	0530	33594		2655	14728	0332	00236	1511
0175	0500	33720		2668	14722	0369	00296	1386
0200	0476	33761		2674	14717	0403	00362	1331
0225	0458	3378 B		2678	14713	0436	00434	1295
0250	0442	33807		2682	14711	0468	00513	1264
0300	0416	3387 B		2689	14710	0530	00688	1196
0400	0399	33996		2701	14721	0646	01100	1090

C-REF-NO 002 YR 1966 DEPTH C 3275 WAVES 1 3322 AIR T 08.3 VIS 5
 CONS. NO 030 MONTH 4 MXSAMPD 04 WAVES 2 3323 WET B 07.2 STN 007
 LAT 49-10 N DAY 19 NO.DPTH 14 WND-DIR 330 WW-CODE 44
 LON 132-40 W HR 23.0 W-COLOR 10 WND-SPD 06 CLD-TPE 7
 MARSD SQ 158 C/I 1802 W-TRNSP 16 BARO 1025.0 CLD-AMT 8 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
230	0000	067 B	32564		2556	14747
230	0010	0685	32560		2554	14754
230	0020	0685	32552		2553	14756
230	0030	0681	32552		2554	14756
230	0050	0677	32551		2554	14757
230	0075	0664	32552		2556	14756
230	0100	0614	32691		2574	14742
230	0125	0582	33297		2625	14741
230	0150	0557	33605		2653	14740
230	0175	0530	33738		2666	14734
230	0200	0486	33768		2674	14721
230	0250	0476	33867		2683	14726
230	0300	0446	33915		2690	14723
230	0400	0411	34020		2702	14726

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SWA
0000	0670 B	32564		2556	14747	0000	00000	2430
0010	0685	32560		2554	14754	0025	00001	2453
0020	0685	32552		2553	14756	0049	00005	2460
0030	0681	32552		2554	14756	0074	00011	2457
0050	0677	32551		2554	14757	0123	00032	2455
0075	0664	32552		2556	14756	0185	00071	2441
0100	0614	32691		2574	14742	0244	00124	2279
0125	0582	33297		2625	14741	0296	00183	1791
0150	0557	33605		2653	14739	0338	00241	1534
0175	0530	33738		2666	14734	0375	00303	1406
0200	0486	33768		2674	14721	0409	00369	1336
0225	0476 C	3382 B		2679	14721	0442	00441	1291
0250	0476	33867		2683	14726	0474	00520	1256
0300	0446	33915		2690	14723	0536	00693	1192
0400	0411	34020		2702	14726	0651	01104	1085

C-REF-NO 002	YR 1966	DEPTH C 2929	WAVES 1 2922	AIR T 08.8	VIS 5
CONS. NO 031	MONTH 4	MXSAMPD 15	WAVES 2 2933	WET B 07.7	STN 006
LAT 49-C2 N	DAY 20	NO.DPTH 20	WND-DIR 290	WW-CODE 01	
LON 130-40 W	HR 05.2	W-COLOR	WND-SPD 08	CLD-TPE 7	
MARSD SQ 158	C/I 1802	W-TRNSP	BARO 1021.0	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
052	0000	073 B	32536		2546	14770
052	0009	0777	32527		2539	14790
052	0019	0779	32529		2539	14792
052	0028	0777	32528		2539	14793
052	0048	0769	32528		2540	14793
052	0071	0750	32550		2545	14790
052	0095	0707	32827		2572	14780
052	0119	0694	33339		2614	14786
052	0143	0700	33681		2640	14797
052	0167	0695	33818		2652	14800
052	0190	0653	33861		2661	14788
052	0238	0604	33938		2673	14777
052	0286	0568	33957		2679	14771
052	0385	0518	34055		2693	14768
056	0496	0454	34106		2704	14761
056	0597	0418	34183		2714	14764
056	0799	0373	34300		2728	14780
056	0999	0333	34401		2740	14797
056	1195	0288	34461		2749	14812
056	1494	0237	34523		2758	14841

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0730 B	32536		2546	14770	0000	00000	2527
0010	0778	32527		2539	14790	0026	00001	2600
0020	0779	32529		2539	14792	0052	00005	2601
0030	0776	32528		2539	14793	0078	00012	2600
0050	0768	32525		2540	14793	0130	00033	2593
0075	0743	32579		2548	14788	0195	00075	2522
0100	0702	3293 D		2581	14781	0254	00128	2210
0125	0695	33442		2622	14789	0305	00186	1824
0150	0701	3374 B		2644	14799	0348	00246	1616
0175	0682	33838		2655	14797	0388	00312	1519
0200	0640	33880		2664	14785	0425	00384	1437
0225	0614	33921		2670	14779	0461	00461	1377
0250	0594	33945		2675	14775	0495	00544	1337
0300	0560	33970		2681	14770	0561	00730	1283
0400	0509	34063		2694	14767	0684	01171	1164
0500	0452	34109		2704	14761	0797	01691	1074

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0600	0417	34185		2714	14764	0901	02277	0987
0700	0393	34247		2722	14771	0998	02920	0922
0800	0373	34301		2728	14780	1088	03616	0868
1000	0333	34401		2740	14798	1253	05133	0763
1200	0290	34467		2749	14814	1399	06779	0679
1500	0236	34524		2758	14842	1593	09449	0593

C-REF-NO 002	YR 1966	DEPTH C 2529	WAVES 1 2823	AIR T	VIS 6
CONS. NO 032	MONTH 4	MXSAMPD 04	WAVES 2 2823	WET B	STN 005
LAT 48-51 N	DAY 20	NO.DPTH 14	WND-DIR 280	WW-CODE 02	
LON 128-40 W	HR 12.0	W-COLOR	WND-SPD 12	CLD-TPE X	
MARSD SQ 157	C/I 1802	W-TRNSP	BARO 1019.0	CLD-AMT 9	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
120	0000	078 B	32354		2525	14787
120	0009	0836	32336		2515	14810
120	0019	0837	32337		2515	14812
120	0028	0837	32338		2515	14813
120	0048	0832	32364		2518	14815
120	0071	0720	32572		2550	14778
120	0095	0784	33262		2595	14816
120	0119	0789	33638		2624	14827
120	0143	0718	33685		2638	14804
120	0167	0710	33811		2649	14806
120	0190	0689	33864		2656	14802
120	0238	0656	33937		2666	14798
120	0286	0606	33970		2675	14787
120	0381	0533	34038		2690	14774

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0780 B	32354		2525	14787	0000	00000	2729
0010	0838	32336		2515	14811	0028	00001	2824
0020	0837	32337		2515	14812	0056	00006	2824
0030	0839	32337		2515	14814	0085	00013	2828
0050	0821 B	32370		2520	14811	0141	00036	2782
0075	0726 C	3268 F		2558	14783	0207	00078	2425
0100	0791	33367		2603	14821	0262	00127	2006
0125	0772 B	3366 D		2629	14821	0310	00181	1765
0150	0713 B	3372 B		2642	14803	0353	00242	1644
0175	0703	33834		2652	14805	0393	00309	1550
0200	0682	33883		2659	14802	0431	00382	1490
0225	0665	33922		2664	14799	0468	00463	1442
0250	0644	33947		2669	14795	0504	00550	1399
0300	0601 B	3399 B		2678	14787	0573	00743	1317

C-REF-NO 002 YR 1966 DEPTH C 2499 WAVES 1 3023 AIR T 08.3 VIS 7
 CONS. NO 033 MONTH 4 MXSAMPD 24 WAVES 2 3034 WET B 07.2 STN 004
 LAT 48-46 N DAY 20 NO.DPTH 22 WND-DIR 300 WW-CODE 02
 LON 127-40 W HR 15.5 W-COLOR WND-SPD 11 CLD-TPE 6
 MARSD SQ 157 C/I 1802 W-TRNSP 15 BARO 1017.0 CLD-AMT 7 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
155	0000	079 B	32413		2528	14792
155	0009	0847	32403		2519	14815
155	0019	0848	32389		2518	14817
155	0028	0848	32416		2520	14819
155	0047	0848	32393		2518	14821
155	0071	0806	32499		2533	14811
155	0094	0757	32540		2543	14796
155	0118	0782	32940		2571	14815
155	0141	0754	33511		2619	14815
155	0165	0736	33758		2641	14815
155	0189	0709	33848		2652	14810
155	0238	0666	33941		2665	14802
155	0286	0627	33982		2674	14795
155	0383	0538	34019		2688	14776
155	0480	0481	34082		2699	14769
155	0579	0442	34172		2711	14770
160	0773	0384	34321		2728	14780
160	0972	0330				
160	1168	0291	34472		2749	14809
160	1468	0241	34528		2758	14838
160	1955	0191	34602		2768	14900
160	2354	0176	34629		2771	14962

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0790 B	32413		2528	14792	0000	00000	2699
0010	0849	32401		2519	14816	0028	00001	2792
0020	0848	32392		2518	14817	0056	00006	2799
0030	0849	32414		2520	14819	0084	00013	2785
0050	0844	3240 B		2519	14821	0140	00036	2789
0075	0795	3250 C		2534	14807	0208	00080	2656
0100	0762 B	3261 B		2548	14800	0274	00138	2527
0125	0776	3312 F		2586	14816	0333	00206	2171
0150	0747	3363 C		2630	14816	0382	00275	1755
0175	0725	3381 B		2647	14813	0424	00345	1600
0200	0698	33876		2656	14808	0464	00420	1516
0225	0676	33925		2663	14804	0501	00502	1454
0250	0656	33954		2668	14800	0537	00590	1409
0300	0614	33988		2676	14792	0606	00785	1336

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0400	0526	34028		2690	14774	0735	01243	1210
0500	0472	34100		2702	14769	0852	01780	1104
0600	0435	34190		2713	14771	0958	02379	1003
0700	0404	34270		2722	14776	1055	03025	0917
0800	0376	34336		2730	14782	1144	03711	0845
1000	0324	3443 B		2743	14794	1304	05180	0735
1200	0285	34479		2751	14812	1446	06778	0664
1500	0237	34534		2759	14842	1636	09404	0586
2000	0188	34603		2769	14906	1912	14322	0499

C-REF-NO 002 YR 1966 DEPTH C 1300 WAVES 1 2933 AIR T 09.4 VIS 7
 CONS. NO 034 MONTH 4 MXSAMP 12 WAVES 2 2944 WET B 07.7 STN 003
 LAT 48-42 N DAY 20 NO.DPTH 19 WND-DIR 290 WW-CODE 01
 LON 126-40 W HR 19.9 W-COLOR 10 WND-SPD 13 CLD-TPE 4
 MARSD SQ 157 C/I 1802 W-TRNSP 11 BARO 1017.0 CLD-AMT 4 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
199	0000	090 B	32171		2493	14831
199	0010	0913	32153		2489	14837
199	0019	0913	32156		2490	14838
199	0029	0891	32284		2503	14833
199	0048	0831	32446		2525	14816
199	0072	0763	32577		2545	14795
199	0096	0770	33247		2596	14811
199	0120	0745	33603		2628	14809
199	0145	0726	33823		2648	14809
199	0169	0684	33916		2661	14798
199	0194	0655	33956		2668	14791
199	0244	0620	33982		2674	14785
199	0294	0574	33996		2681	14775
199	0394	0511	34049		2693	14767
204	0498	0472	34130		2704	14769
204	0597	0442	34184		2712	14774
204	0795	0380	34351		2731	14783
204	0992	0335	34443		2743	14798
204	1186	0297	34470		2749	14814

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0900 B	32171		2493	14831	0000	00000	3035
0010	0913	32153		2489	14837	0031	00002	3070
0020	0911	32167		2491	14838	0062	00006	3059
0030	0888	32294		2504	14833	0092	00014	2931
0050	0824	3245 C		2526	14813	0149	00037	2727
0075	0763	3266 E		2551	14797	0214	00079	2493
0100	0767	3332 B		2603	14811	0271	00129	2006
0125	0742	33658		2633	14810	0318	00183	1726
0150	0718	33849		2651	14807	0359	00241	1554
0175	0676	33929		2663	14796	0397	00303	1443
0200	0650	33961		2669	14790	0433	00372	1389
0225	0632	33977		2673	14787	0467	00447	1358
0250	0615	33984		2675	14784	0501	00530	1334
0300	0569	33998		2682	14774	0567	00715	1273
0400	0508	34054		2694	14767	0690	01156	1170
0500	0471	34131		2704	14769	0804	01678	1079
0600	0441	34187		2712	14774	0909	02274	1013

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0700	0409	3427 B		2722	14778	1007	02925	0922
0800	0379	34354		2732	14783	1096	03608	0835
1000	0332	34447		2744	14798	1254	05061	0728
1200	0295	34469		2749	14816	1397	06675	0683

SECTION IV

Bathythermograms

EXPLANATION OF DATA HEADINGS

CON No:	The consecutive BT slide number.
LAT: 3	Position of platform at time of BT lowering.
LONG: 3	
DATE:	
Day	Day
Mon	Month
Yr	Year
TIME: Hrs Min	The Greenwich Mean Time at which the BT lowering was made.
DEPTH:	The sounding reported in metres.
BAR: Mbs	Barometric pressure; prefix all listed values by 10 or by 9 if a minus (-) sign is present to obtain the pressure in whole millibars. eg: 02 = 1002 'mbs 17 = 1017 m'bs -98 = 998 mbs -86 = 986 mbs.
WW Code:	Refer to Table 7, Section II
WIND Amt:	Wind speed in meters per second
WAVES - 1: P H	Refer to Tables 4 & 5, Section II
WAVES - 11: .P H	Refer to Tables 4 & 5, Section II
CLOUD: T A	Refer to Tables 8 & 9, Section II

CCGS "ST. CATHARINES" P - 66 - 1

BATHYTHERMOGRAMS

100
TABLE I

CON No	LAT		LONG		DATE			TIME		DEPTH Metres	BAR Mbs	WW Code	WIND Amt	W-I		W-II		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
001	49	04	131	40	05	03	66	20	00	1572		89	12	23	34	6	8		
002	49	09	132	40	05	03	66	23	00	1791		02	16	23	35	3	5		
003	49	13	133	40	06	03	66	02	30	1750		03	15	23	34	6	6		
004	49	17	134	40	06	03	66	05	30	1941		02	10	23	34	6	7		
005	49	22	135	40	06	03	66	08	15	1750		16	08	23	34	6	6		
006	49	26	136	40	06	03	66	11	45	2064		02	05	21	34	6	4		
007	49	30	137	40	06	03	66	14	10	2105		02	12	21	34	6	7		
008	49	34	138	40	06	03	66	17	00	2127		03	12	21	34	9	6		
009	49	38	139	40	06	03	66	21	20	2100		02	12	21	33	8	3		
010	49	42	140	40	07	03	66	00	30	2122		02	10	21	22	8	4		
011	49	45	141	40	07	03	66	04	45	2171		03	15	22	23	8	5		
012	49	49	142	40	07	03	66	09	10	2138		15	06	22	23	8	5		
013	50	00	143	54	07	03	66	13	00	2250		03	18	22	23	8	7		
014	50	42	143	52	08	03	66	01	55	2170		02	20	22	23	8	4		
015	50	42	145	00	08	03	66	10	00	2340		18	22	33	34	9	6		
016	50	42	146	08	08	03	66	17	25	2380		03	30	44	57	6	6		
017	50	00	145	20	09	03	66	03	00	2308		15	30	36	45	8	6		
018	49	58	145	10	09	03	66	06	00	2308		02	34	37	45	8	8		
019	49	59	145	10	09	03	66	09	00	2308		02	35	38	45	8	8		
020	50	01	145	13	09	03	66	12	00	2308		27	47	39	XX	8	8		
021	50	06	145	17	09	03	66	15	00	2308		87	38	39	XX	6	8		
022	50	08	145	19	09	03	66	18	00	2308		15	46	49	47	6	7		
023	50	07	145	31	09	03	66	21	00	2308		15	45	49	47	8	7		
024	50	11	145	39	10	03	66	00	00	2308		26	47	49	XX	8	6		
025	50	09	145	45	10	03	66	03	00	2308		15	51	49	XX	9	6		
026	49	50	144	39	10	03	66	18	00	2308		02	34	49	37	8	7		
027	49	48	144	47	10	03	66	21	00	2308		02	21	59	47	8	6		
028	49	56	144	53	11	03	66	00	00	2308		80	29	48	47	8	7		
029	50	01	145	08	11	03	66	03	00	2308		80	24	47	45	8	7		
030	50	04	145	16	11	03	66	06	00	2308		02	13	46	XX	8	8		

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TABLE I

CON No	LAT		LONG		DATE			TIME		DEPTH Metres	BAR Mbs	W W Code	WIND Amt	W-I		W-II		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
031	50	02	145	03	11	03	66	09	00	2308		02	07	32	46	8	8		
032	50	03	144	59	11	03	66	12	00	2308		02	07	32	45	8	8		
033	50	02	144	56	11	03	66	15	00	2308		25	05	32	45	8	4		
034	50	01	144	53	11	03	66	18	00	2308		15	11	22	43	8	5		
035	50	01	144	53	11	03	66	18	30	2308		01	08	22	33	9	3		
036	50	00	144	52	11	03	66	21	00	2308		02	08	21	44	8	4		
037	50	01	144	56	12	03	66	00	00	2308		02	07	00	44	6	6		
038	50	03	144	56	12	03	66	03	00	2308		25	06	00	42	7	6		
039	50	04	144	53	12	03	66	06	00	2308		02	07	XX	XX	5	8		
040	50	01	145	01	12	03	66	09	00	2308		02	06	XX	XX	7	6		
041	50	05	145	00	12	03	66	12	00	2308		02	00	00	XX	7	6		
042	50	03	144	59	12	03	66	15	00	2308		02	06	00	XX	2	8		
043	50	03	144	55	12	03	66	18	00	2308		02	08	00	62	7	6		
044	50	03	144	55	12	03	66	19	00	2308		60	08	21	33	6	5		
045	49	59	144	59	12	03	66	21	00	2308		02	10	22	73	7	6		
046	49	57	144	56	13	03	66	00	00	2308		02	10	22	43	6	6		
047	49	55	145	00	13	03	66	03	00	2308		02	06	00	43	7	6		
048	49	59	145	00	13	03	66	06	00	2308		02	07	22	43	8	6		
049	49	58	145	00	13	03	66	09	00	2308		02	09	22	43	6	6		
050	49	59	144	58	13	03	66	12	00	2308		02	11	22	33	8	6		
051	49	57	144	59	13	03	66	15	00	2308		02	15	23	33	8	6		
052	49	53	145	05	13	03	66	18	00	2308		02	15	33	43	8	6		
053	50	01	145	00	13	03	66	21	00	2308		02	16	33	44	8	6		
054	50	02	144	59	14	03	66	00	00	2308		02	10	23	43	8	6		
055	49	58	145	01	14	03	66	03	00	2308		02	10	22	35	8	8		
056	49	55	145	00	14	03	66	06	00	2308		02	11	33	44	8	6		
057	50	02	145	00	14	03	66	09	00	2308		02	08	33	44	6	6		
058	50	01	145	00	14	03	66	12	00	2308		26	11	32	XX	3	6		
059	49	57	145	00	14	03	66	15	00	2308		71	30	34	XX	9	X		
060	50	00	145	01	14	03	66	18	00	2308		71	33	35	44	8	7		

TABLE I

CON No	LAT		LONG		DATE			TIME		DEPTH Metres	BAR Mbs	WW Code	WIND Aml	W-I		W-II		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
061	50	04	144	58	14	03	66	21	00	2308		03	33	46	44			4	6
062	50	07	144	56	15	03	66	00	00	2308		15	33	47	44			5	8
063	50	14	144	59	15	03	66	03	00	2308		15	34	48	44			6	8
064	50	20	144	59	15	03	66	06	00	2308		26	34	48	XX			5	8
065	50	05	144	59	15	03	66	09	00	2308		02	34	48	XX			3	8
066	49	57	144	58	15	03	66	12	00	2308		02	35	49	XX			8	8
067	50	03	145	00	15	03	66	15	00	2308		02	31	49	XX			4	8
068	50	05	145	02	15	03	66	18	00	2308		85	35	49	XX			6	9
069	50	08	145	05	15	03	66	21	00	2308		15	31	48	45			4	9
070	50	12	145	07	16	03	66	00	00	2308		26	23	48	45			7	8
071	50	16	145	10	16	03	66	03	00	2308		15	33	39	45			5	8
072	50	22	145	11	16	03	66	06	00	2308		26	27	49	45			7	8
073	50	08	145	05	16	03	66	09	00	2308		02	25	48	45			5	8
074	50	03	145	03	16	03	66	12	00	2308		02	26	46	XX			3	8
075	50	05	145	00	16	03	66	15	00	2308		02	21	35	XX			1	6
076	50	09	145	02	16	03	66	18	00	2308		02	20	35	XX			1	8
077	50	08	145	02	16	03	66	79	00	2308		01	25	34	45			1	2
078	50	07	145	02	16	03	66	21	00	2308		03	17	22	46			4	8
079	49	59	145	04	17	03	66	00	00	2308		02	19	33	46			4	8
080	49	58	145	02	17	03	66	03	00	2308		02	26	35	46			6	6
081	49	45	145	00	17	03	66	06	00	2308		02	30	46	XX			5	6
082	49	47	145	02	17	03	66	09	00	2308		02	34	47	XX			3	6
083	49	56	145	01	17	03	66	12	00	2308		02	30	48	XX			8	6
084	49	59	145	00	17	03	66	15	00	2308		02	38	49	XX			8	6
085	50	05	144	56	17	03	66	18	00	2308		26	36	49	46			7	8
086	50	10	144	53	17	03	66	21	00	2308		02	34	49	46			7	6
087	50	16	144	52	18	03	66	00	00	2308		02	38	49	46			7	6
088	50	21	145	00	18	03	66	03	00	2308		02	36	49	46			7	6
089	50	24	145	06	18	03	66	06	00	2308		02	39	40	46			8	6
090	50	08	144	57	18	03	66	09	00	2308		02	34	40	XX			6	6

TABLE I

CON No	LAT		LONG		DATE			TIME		DEPTH Metres	BAR Mbs	W W Code	WIND AmI	W-T		W-H		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	'	A
091	50	02	144	53	18	03	66	12	00	2308		02	34	40	XX			6	6
092	50	06	145	06	18	03	66	15	00	2308		02	37	40	XX			7	6
093	50	08	145	14	18	03	66	18	00	2308		27	33	31	45			3	9
094	50	10	145	17	18	03	66	21	00	2308		02	28	38	35			7	8
095	50	17	145	35	19	03	66	00	00	2308		22	13	27	35			6	8
096	50	07	145	11	19	03	66	03	00	2308		15	36	49	45			6	8
097	50	00	145	05	19	03	66	06	00	2308		02	32	49	45			8	8
098	50	02	145	10	19	03	66	09	00	2308		02	41	40	45			3	6
099	50	04	145	15	19	03	66	12	00	2308		26	38	41	45			6	8
100	50	10	145	23	19	03	66	15	00	2308		02	39	43	XX			7	6
101	50	11	145	30	19	03	66	18	00	2308		26	35	43	45			8	8
102	50	16	145	39	19	03	66	21	00	2308		15	34	41	46			7	8
103	50	18	145	45	20	03	66	00	00	2308		02	26	49	46			8	6
104	50	05	145	22	20	03	66	03	00	2308		15	19	49	56			7	6
105	50	04	145	02	20	03	66	06	00	2308		02	16	48	55			8	6
106	50	00	144	56	20	03	66	09	00	2308		02	24	48	55			3	6
107	50	01	144	55	20	03	66	12	00	2308		02	22	45	XX			5	6
108	49	55	144	49	20	03	66	15	00	2308		02	15	34	XX			7	6
109	49	56	144	52	20	03	66	18	00	2308		02	18	34	XX			6	6
110	49	58	144	57	20	03	66	19	00	2308		01	13	23	44			1	4
111	49	57	144	56	20	03	66	21	00	2308		15	13	34	XX			6	6
112	49	55	144	53	21	03	66	00	00	2308		02	04	00	44			7	3
113	49	56	145	00	21	03	66	03	00	2308		02	05	00	44			6	8
114	50	00	144	56	21	03	66	06	00	2308		68	14	21	44			7	8
115	50	01	145	00	21	03	66	09	00	2308		61	25	33	44			7	8
116	50	04	145	02	21	03	66	12	00	2308		61	31	45	XX			7	8
117	50	01	144	59	21	03	66	15	00	2308		61	35	46	XX			7	8
118	49	58	144	54	21	03	66	18	00	2308		10	33	48	45			7	8
119	49	50	145	02	21	03	66	21	00	2308		10	29	48	44			7	8
120	49	46	145	11	22	03	66	00	00	2308		10	28	47	44			7	8

TABLE I

CON No	LAT		LONG		DATE			TIME		DEPTH Metres	BAR Mbs	WW Code	WIND Amf	W-I		W-II		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
121	49	59	145	00	22	03	66	03	00	2308		28	17	45	55	7	8		
122	49	58	144	53	22	03	66	06	00	2308		10	22	45	55	7	8		
123	50	01	144	54	22	03	66	09	00	2308		61	29	46	55	7	8		
124	50	00	144	55	22	03	66	12	00	2308		10	28	45	XX	7	8		
125	49	53	144	55	22	03	66	15	00	2308		58	24	45	XX	7	8		
126	50	00	145	01	22	03	66	18	00	2308		61	24	35	36	7	8		
127	49	58	145	10	22	03	66	21	00	2308		15	28	25	36	6	7		
128	50	11	145	14	23	03	66	00	00	2308		15	24	45	45	8	6		
129	49	59	145	12	23	03	66	03	00	2308		02	16	33	45	6	5		
130	49	58	144	58	23	03	66	06	00	2308		02	20	34	45	6	5		
131	50	00	145	08	23	03	66	09	00	2308		26	33	46	45	6	8		
132	49	58	145	11	23	03	66	12	00	2308		26	31	46	45	6	6		
133	49	58	145	16	23	03	66	15	00	2308		02	22	45	44	6	6		
134	49	58	145	06	23	03	66	18	00	2308		02	22	34	46	6	7		
135	49	50	145	22	23	03	66	21	00	2308		58	37	35	45	7	8		
136	49	48	145	27	24	03	66	00	00	2308		61	37	35	45	7	8		
137	50	04	145	19	24	03	66	03	00	2308		61	35	35	45	7	8		
138	50	15	145	09	24	03	66	06	00	2308		61	39	37	45	6	8		
139	50	07	145	10	24	03	66	09	00	2308		61	30	38	45	6	8		
140	50	01	145	12	24	03	66	12	00	2308		61	28	36	XX	7	8		
141	49	54	145	20	24	03	66	15	00	2308		61	21	36	34	7	8		
142	49	48	145	21	24	03	66	18	00	2308		61	28	36	34	5	8		
143	50	00	145	13	24	03	66	21	00	2308		61	30	36	34	5	8		
144	50	06	145	04	25	03	66	00	00	2308		61	33	37	34	7	8		
145	50	06	145	03	25	03	66	03	00	2308		21	30	48	45	7	8		
146	49	56	145	04	25	03	66	06	00	2308		02	21	48	45	6	8		
147	49	51	145	10	25	03	66	09	00	2308		02	27	47	XX	6	8		
148	49	44	145	16	25	03	66	12	00	2308		02	27	47	XX	6	8		
149	49	53	145	02	25	03	66	15	00	2308		02	20	47	44	6	8		
150	49	58	145	00	25	03	66	18	00	2308		10	18	34	46	7	8		

TABLE I

CON No	LAT		LONG		DATE			TIME		DEPTH Metres	BAR Mbs	WW Code	W NO Amt	W - I		W - I P H	W - I P H	CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
151	49	58	144	59	25	03	66	19	00	2308		43	09	22	34	X	9		
152	49	57	144	58	25	03	66	21	00	2308		02	13	33	45		6	8	
153	49	59	144	52	26	03	66	00	00	2308		02	10	33	34		6	5	
154	50	00	144	52	26	03	66	03	00	2308		02	10	43	55		0	3	
155	50	00	144	55	26	03	66	06	00	2308		02	11	43	44		6	8	
156	49	57	145	11	26	03	66	09	00	2308		02	03	43	44		6	4	
157	50	03	145	10	26	03	66	12	00	2308		02	12	22	XX		4	6	
158	50	02	145	08	26	03	66	15	00	2308		02	16	22	54		3	7	
159	50	03	145	06	26	03	66	18	00	2308		02	24	23	54		4	8	
160	50	05	145	04	26	03	66	19	00	2308		03	22	33	34		7	8	
161	50	04	145	05	26	03	66	21	00	2308		02	23	24	34		6	8	
162	50	09	145	06	27	03	66	00	00	2308		21	28	36	34		7	8	
163	50	06	145	04	27	03	66	03	00	2308		61	29	37	44		7	8	
164	50	01	144	58	27	03	66	06	00	2308		61	24	37	44		7	8	
165	49	57	144	55	27	03	66	09	00	2308		61	27	37	44		7	8	
166	49	54	144	55	27	03	66	12	00	2308		02	27	45	37		7	8	
167	49	47	144	52	27	03	66	15	00	2308		02	24	45	36		6	8	
168	49	52	144	55	27	03	66	18	00	2308		10	23	35	45		6	7	
169	50	02	144	55	27	03	66	21	00	2308		51	20	35	45	X	9		
170	50	11	144	50	28	03	66	00	00	2308		61	32	36	44		7	8	
171	50	07	144	55	28	03	66	03	00	2308		02	32	36	44		7	8	
172	50	03	144	55	28	03	66	06	00	2308		02	36	38	XX		6	7	
173	49	59	144	55	28	03	66	09	00	2308		61	36	49	XX		7	8	
174	49	54	144	59	28	03	66	12	00	2308		61	38	40	XX		7	8	
175	49	50	145	07	28	03	66	15	00	2308		02	23	49	XX		6	4	
176	49	55	145	03	28	03	66	18	00	2308		01	24	49	45		3	3	
177	49	50	145	08	28	03	66	21	00	2308		02	25	37	34		0	4	
178	49	46	145	10	29	03	66	00	00	2308		10	29	37	44		0	4	
179	49	54	145	00	29	03	66	03	00	2308		10	21	36	44		6	7	
180	50	06	144	52	29	03	66	06	00	2308		02	20	35	44		6	6	

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TABLE I

No.	LAT		LONG		DATE			TIME		DEPTH Metres	BAR Mbs	W W Code	WIND Amt	W-I		W-II		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
181	50	15	144	49	29	03	66	09	00	2308		02	21	35	44	6	6		
182	50	06	144	52	29	03	66	12	00	2308		51	28	35	XX	6	8		
183	50	02	144	50	29	03	66	15	00	2308		15	13	22	35	8	7		
184	50	01	144	58	29	03	66	18	00	2308		15	22	34	35	8	6		
185	50	01	144	58	29	03	66	18	30	2308		02	17	34	44	6	5		
186	50	02	144	56	29	03	66	21	00	2308		02	21	46	34	6	6		
187	50	05	144	52	30	03	66	00	00	2308		02	18	46	33	6	6		
188	50	05	144	51	30	03	66	03	00	2308		15	15	45	33	6	7		
189	50	07	144	48	30	03	66	06	00	2308		02	13	44	XX	4	8		
190	50	04	144	56	30	03	66	09	00	2308		02	11	22	XX	8	8		
191	50	01	145	00	30	03	66	12	00	2308		02	11	22	XX	8	6		
192	50	04	144	59	30	03	66	15	00	2308		02	06	21	43	8	6		
193	50	04	144	57	30	03	66	18	00	2308		80	16	32	43	6	7		
194	50	01	145	00	30	03	66	21	00	2308		02	12	22	44	0	6		
195	49	48	144	57	31	03	66	00	00	2308		02	09	22	44	2	7		
196	50	03	144	56	31	03	66	03	00	2308		02	09	22	33	4	8		
197	50	01	144	59	31	03	66	06	00	2308		61	11	22	33	7	8		
198	50	04	145	03	31	03	66	09	00	2308		61	21	34	XX	7	8		
199	50	04	145	08	31	03	66	12	00	2308		61	24	35	XX	7	8		
200	50	06	145	13	31	03	66	15	00	2308		61	20	34	33	7	8		
201	50	02	145	04	31	03	66	18	00	2308		61	13	22	34	6	8		
202	49	58	145	04	31	03	66	21	00	2308		61	13	22	35	6	8		
203	49	57	145	07	01	04	66	00	00	2308		61	20	33	35	6	8		
204	49	55	145	05	01	04	66	03	00	2308		61	28	35	34	7	8		
205	49	53	145	07	01	04	66	06	00	2308		21	33	35	XX	7	8		
206	49	58	145	16	01	04	66	09	00	2308		02	28	35	XX	6	6		
207	50	08	145	25	01	04	66	12	00	2308		02	21	35	44	6	3		
208	50	05	145	17	01	04	66	15	00	2308		02	16	34	45	8	5		
209	49	59	145	01	01	04	66	18	00	2308		02	23	35	46	6	8		
210	49	59	145	01	01	04	66	19	00	2308		02	25	34	44	7	6		

TABLE I

CON No	LAT		LONG		DATE			TIME		DEPTH Metres	BAR Mbs	WW Code	WIND Amt	W-I		W-II		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	I	A
211	50	05	144	57	01	04	66	21	00	2308		21	24	35	35			4	8
212	50	06	144	53	02	04	66	00	00	2308		21	32	36	46			6	8
213	50	00	144	56	02	04	66	03	00	2308		61	35	38	47			6	8
214	49	54	144	58	02	04	66	06	00	2308		61	37	49	XX			7	8
215	50	04	144	53	02	04	66	09	00	2308		61	35	49	XX			7	8
216	50	08	144	47	02	04	66	12	00	2308		61	33	49	XX			7	8
217	50	53	144	53	02	04	66	15	00	2308		61	33	59	47			7	8
218	50	00	145	00	02	04	66	18	00	2308		61	30	39	49			4	8
219	49	55	145	04	02	04	66	21	00	2308		61	30	38	49			4	8
220	49	52	145	11	03	04	66	00	00	2308		02	25	38	46			4	8
221	50	00	145	04	03	04	66	03	00	2308		21	22	38	46			7	8
222	50	02	145	04	03	04	66	06	00	2308		61	16	36	XX			7	8
223	50	03	145	04	03	04	66	09	00	2308		51	12	34	XX			7	8
224	50	07	145	05	03	04	66	12	00	2308		51	16	34	XX			7	8
225	50	02	145	00	03	04	66	15	00	2308		51	21	34	45			7	8
226	50	05	145	00	03	04	66	18	00	2308		51	29	35	46			7	8
227	50	01	145	00	03	04	66	21	00	2308		10	23	35	46			7	8
228	50	02	145	00	04	04	66	00	00	2308		10	17	34	45			6	8
229	50	02	144	56	04	04	66	03	00	2308		10	16	34	45			7	8
230	50	04	144	58	04	04	66	06	00	2308		10	09	22	45			7	8
231	50	08	144	57	04	04	66	09	00	2308		10	06	22	45			7	8
232	50	12	144	57	04	04	66	12	00	2308		10	07	21	44			7	8
233	50	01	145	00	04	04	66	15	00	2308		02	06	21	44			7	7
234	50	02	144	59	04	04	66	18	00	2308		02	06	21	44			6	6
235	50	04	144	59	04	04	66	19	00	2308		02	03	21	33			6	9
236	50	08	145	01	04	04	66	21	00	2308		02	06	20	44			6	8
237	50	06	145	01	05	04	66	00	00	2308		02	09	22	45			6	8
238	50	02	145	01	05	04	66	03	00	2308		02	10	22	45			6	8
239	50	04	145	03	05	04	66	06	00	2308		02	10	22	45			6	8
240	50	04	145	05	05	04	66	09	00	2308		02	12	22	45			6	8

TABLE I

No	LAT		LONG		DATE			TIME		DEPTH	BAR	WW	WIND	W-I		W-II		CLOUD
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min	Metres	Mbs	Code	Am	P	H	P	H	T A
241	50	05	145	06	05	04	66	12	00	2308		02	12	22	44	6	8	
242	50	07	145	10	05	04	66	15	00	2308		02	13	22	43	6	8	
243	50	02	145	00	05	04	66	18	00	2308		02	15	22	33	7	8	
244	50	03	145	04	05	04	66	21	00	2308		02	17	24	34	7	8	
245	50	04	145	06	06	04	66	00	00	2308		02	14	23	34	7	8	
246	50	02	145	03	06	04	66	03	00	2308		02	16	23	33	7	8	
247	50	01	145	07	06	04	66	06	00	2308		02	15	23	33	7	8	
248	50	03	145	00	06	04	66	09	00	2308		02	17	33	XX	7	8	
249	50	03	145	03	06	04	66	12	00	2308		02	14	33	XX	7	8	
250	50	05	145	08	06	04	66	15	00	2308		02	16	33	44	7	8	
251	50	00	145	00	06	04	66	18	00	2308		02	22	24	44	7	8	
252	49	59	145	03	06	04	66	19	00	2308		02	22	23	44	7	8	
253	50	07	145	05	06	04	66	21	00	2308		02	22	35	34	7	7	
254	50	07	145	08	07	04	66	00	00	2308		02	16	35	34	7	8	
255	49	59	145	05	07	04	66	03	00	2308		02	16	35	34	7	8	
256	50	01	145	05	07	04	66	06	00	2308		02	17	35	34	7	8	
257	49	59	145	02	07	04	66	09	00	2308		02	15	35	34	7	8	
258	50	01	145	06	07	04	66	12	00	2308		10	15	34	34	7	8	
259	50	01	145	00	07	04	66	15	00	2308		10	17	34	45	7	8	
260	50	00	145	02	07	04	66	18	00	2308		02	16	24	55	7	8	
261	49	59	145	05	07	04	66	21	00	2308		02	15	23	54	7	8	
262	49	58	145	09	08	04	66	00	00	2308		02	15	23	33	7	8	
263	49	56	145	14	00	04	66	03	00	2308		02	16	33	33	7	8	
264	49	56	145	15	08	04	66	06	00	2308		02	16	33	00	7	8	
265	49	59	145	01	08	04	66	09	00	2308		02	11	33	00	7	8	
266	50	03	145	03	08	04	66	12	00	2308		01	08	00	21	0	3	
267	49	59	145	07	08	04	66	15	00	2308		02	14	22	21	2	2	
268	50	00	145	02	08	04	66	18	00	2308		02	11	22	21	0	4	
269	50	01	145	03	08	04	66	19	00	2308		02	07	22	33	3	2	
270	50	00	145	05	08	04	66	21	00	2308		02	10	21	22	0	7	

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TABLE I

CON No	LAT		LONG		DATE			TIME		DEPTH Metres	BAR Mbs	W W Code	WIND Am	W-I		W-II		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	I	A
271	49	59	145	06	09	04	66	00	00	2308		02	14	22	22			0	4
272	49	57	145	10	09	04	66	03	00	2308		02	16	33	00			6	7
273	49	56	145	08	09	04	66	06	00	2308		02	14	33	00			6	8
274	50	02	145	03	09	04	66	09	00	2308		02	14	33	00			6	8
275	50	01	145	04	09	04	66	12	00	2308		02	15	33	00			6	8
276	49	59	145	07	09	04	66	15	00	2308		02	15	33	33			6	8
277	49	57	145	08	09	04	66	18	00	2308		02	10	22	00			7	8
278	49	55	145	10	09	04	66	21	00	2308		02	11	22	00			7	8
279	49	54	145	11	10	04	66	00	00	2308		02	08	21	22			7	8
280	49	53	145	13	10	04	66	03	00	2308		02	04	20	32			6	8
281	49	51	145	15	10	04	66	06	00	2308		02	07	00	32			6	8
282	49	59	144	59	10	04	66	09	00	2308		02	03	00	32			6	8
283	49	58	145	01	10	04	66	12	00	2308		02	03	00	XX			6	8
284	50	00	145	00	10	04	66	15	00	2308		02	09	21	21			6	8
285	49	59	145	02	10	04	66	18	00	2308		02	06	20	21			7	8
286	49	18	143	55	11	04	66	03	30	2330		02	06	X0	21			4	2
287	49	18	145	00	11	04	66	09	00	2350		02	05	X0	22			0	1
288	49	18	146	05	11	04	66	15	06	2350		03	00	X0	54			6	7
289	50	00	146	06	11	04	66	21	00	2040		02	06	22	54			4	6
290	50	42	146	08	12	04	66	03	30	2380		02	18	22	54			6	7
291	50	42	145	00	12	04	66	09	00	2340		85	20	34	44			7	7
292	50	42	143	52	12	04	66	15	00	2170		86	25	34	45			4	6
293	50	00	143	54	12	04	66	20	15	2250		02	30	34	45			4	6
294	50	02	144	08	13	04	66	00	00	2308		87	35	37	45			8	7
295	50	00	144	26	13	04	66	03	00	2308		02	27	37	44			6	7
296	50	01	144	40	13	04	66	06	00	2308		02	20	37	44			6	8
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298	50	06	145	08	13	04	66	12	00	2308		02	23	36	44			6	8
299	50	02	145	11	13	04	66	15	00	2308		15	14	24	68			8	8
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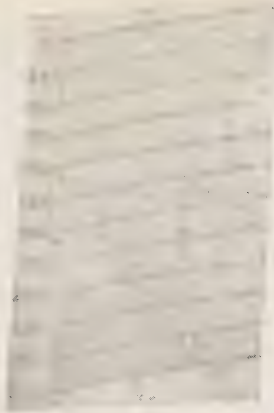
CON No	LAT		LONG		DATE			TIME		DEPTH Metres	BAR Mbs	WW Code	WIND Aml	W-1		W-11		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
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311	49	55	144	58	15	04	66	03	00	2308		02	09	34	45	6	8		
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315	49	55	145	00	15	04	66	15	00	2308		02	09	21	44	6	8		
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317	49	58	144	59	15	04	66	19	00	2308		02	06	21	32	4	6		
318	50	01	144	59	15	04	66	21	00	2308		02	08	21	43	6	8		
319	50	01	145	00	16	04	66	00	00	2308		02	10	21	42	6	8		
320	50	01	144	55	16	04	66	03	00	2308		02	12	22	32	6	8		
321	50	02	144	52	16	04	66	06	00	2308		02	14	22	32	6	8		
322	50	04	144	51	16	04	66	09	00	2308		02	14	22	32	6	8		
323	50	09	144	49	16	04	66	12	00	2308		02	10	22	32	6	8		
324	50	01	144	58	16	04	66	15	00	2308		02	18	23	33	6	8		
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329	50	04	144	55	17	04	66	06	00	2308		02	10	23	43	6	8		
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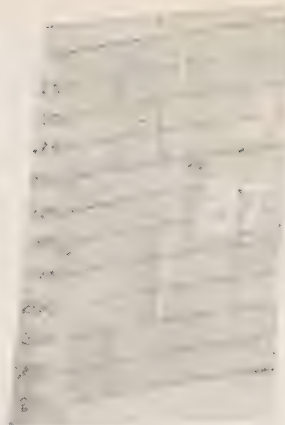
CON No	LAT		LONG		DATE			TIME		DEPTH	BAR	WW	WIND	W-1		W-11		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min	Metres	Mbs	Code	Amt	P	H	P	H	T	A
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334	50	02	144	36	17	04	66	21	00	2308		42	09	21	43	7	8		
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343	49	26	136	40	19	04	66	08	42	2064		45	14	22	32	X	9		
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347	49	10	132	40	19	04	66	22	40	1791		44	16	22	33	7	8		
348	49	05	131	40	20	04	66	01	50	1572		50	14	22	33	7	8		
349	49	02	130	40	20	04	66	04	48	1602		01	16	22	33	7	8		
350	48	53	129	40	20	04	66	08	50	1422		02	18	22	33	7	8		
351	48	51	128	40	20	04	66	11	35	1383		02	25	23	33	X	9		
352	48	46	127	40	20	04	66	15	06	1367		02	22	23	34	6	7		
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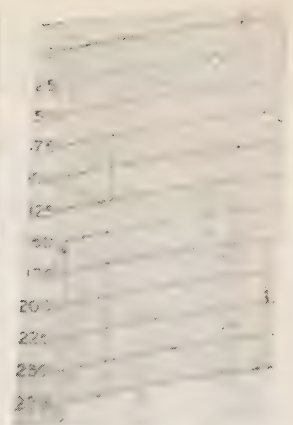
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2



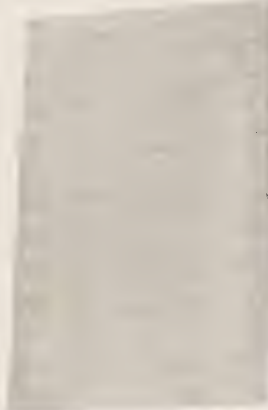
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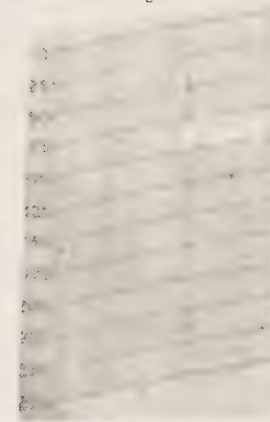
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5



6



7



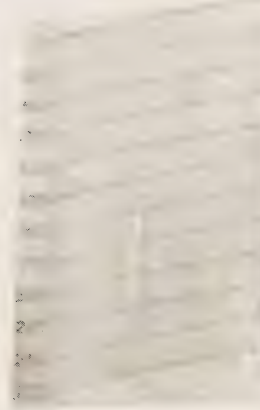
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9



10



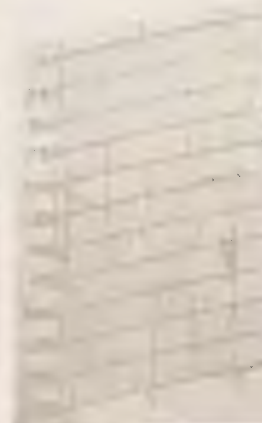
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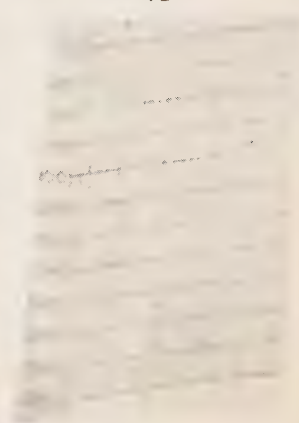
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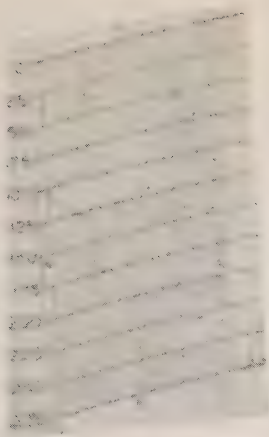
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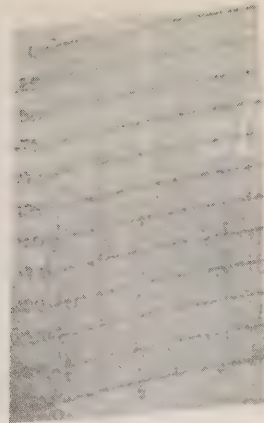
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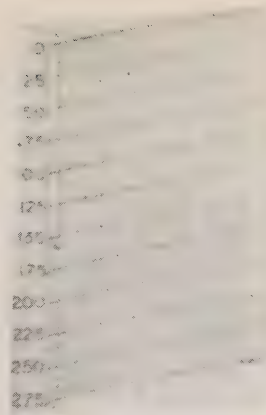
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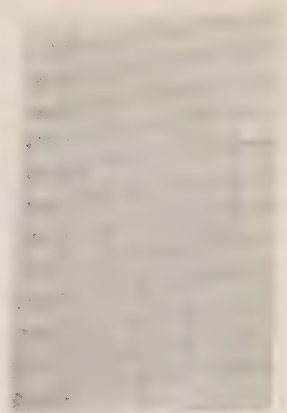
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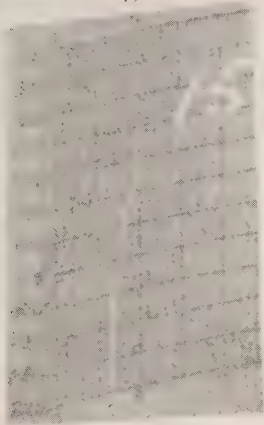
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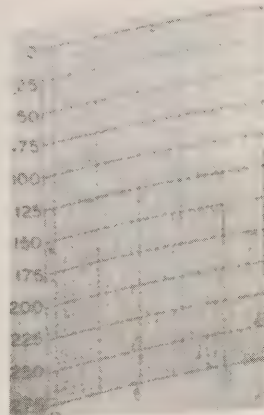
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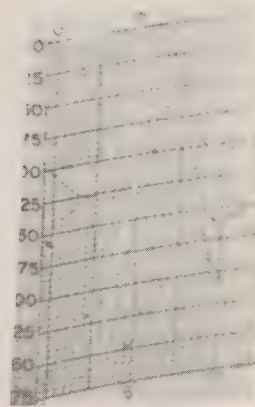
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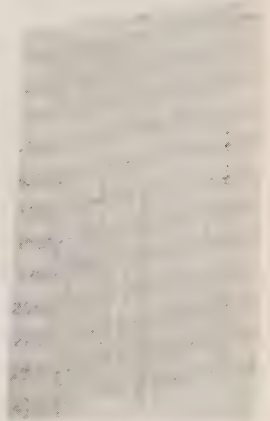
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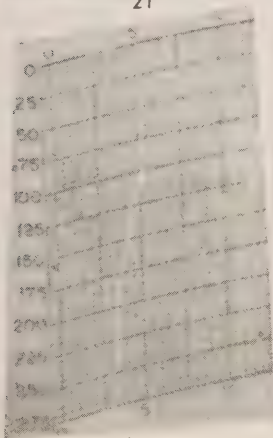
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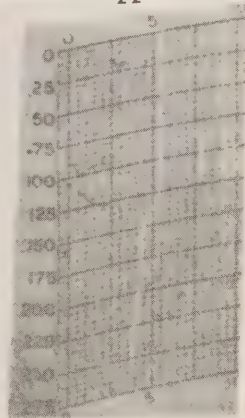
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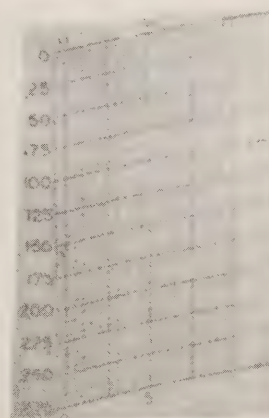
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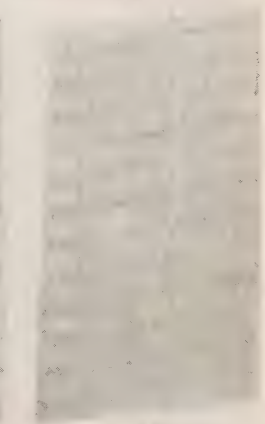
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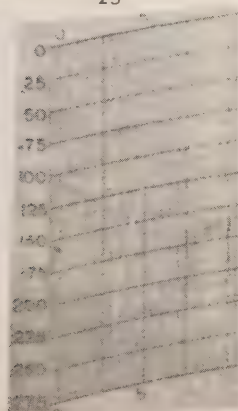
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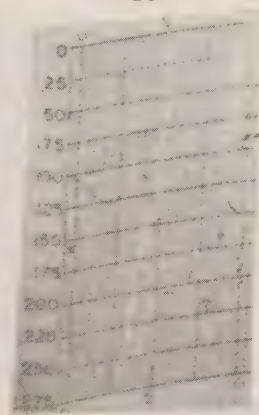
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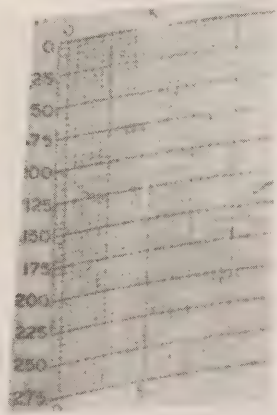
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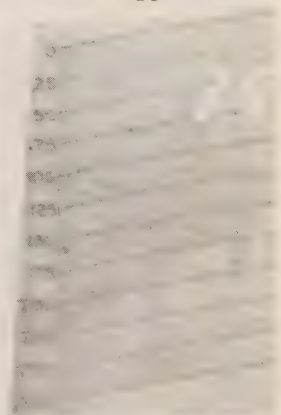
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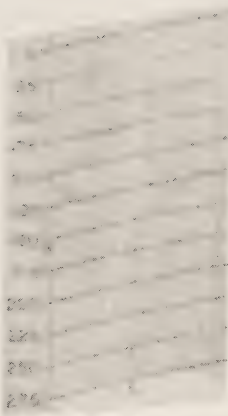
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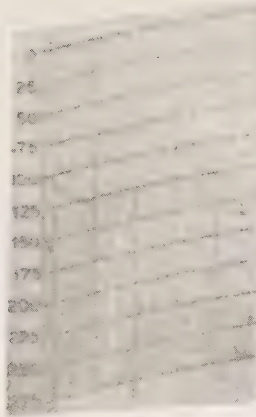
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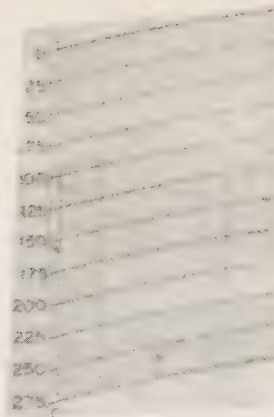
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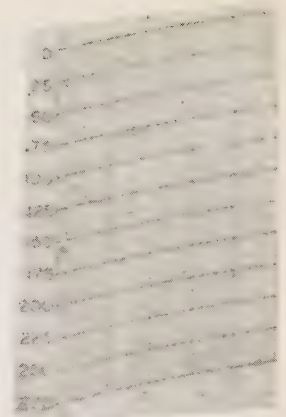
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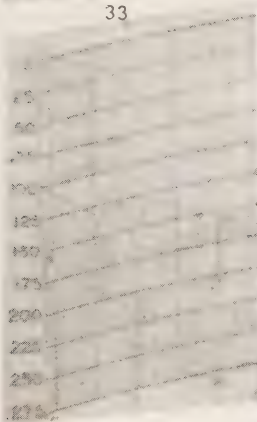
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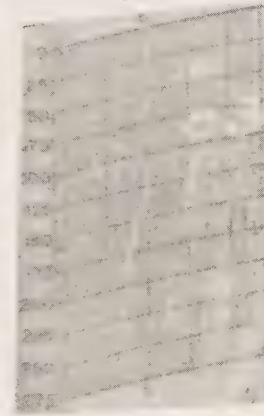
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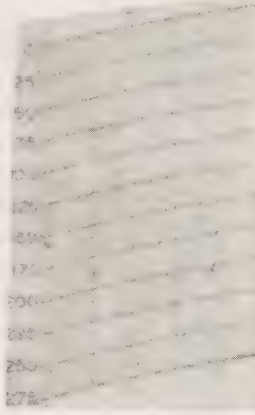
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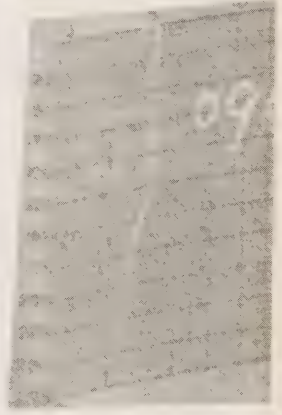
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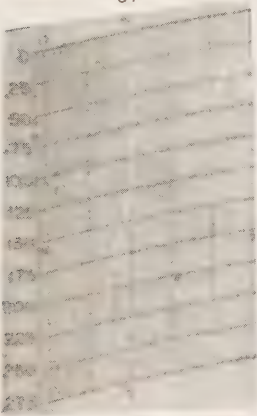
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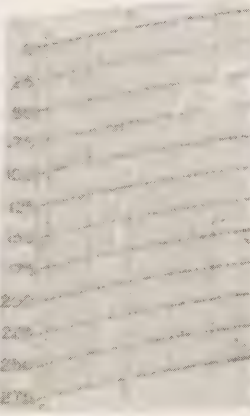
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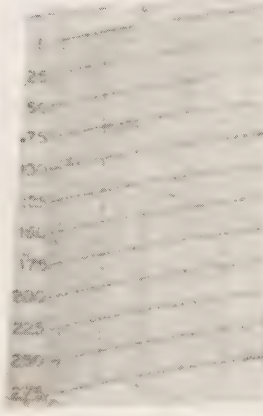
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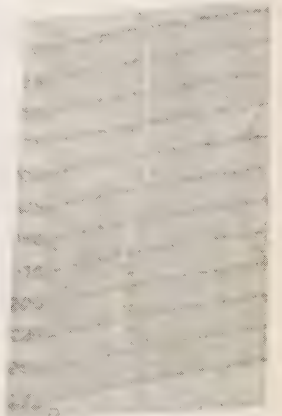
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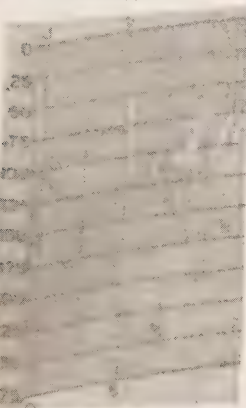
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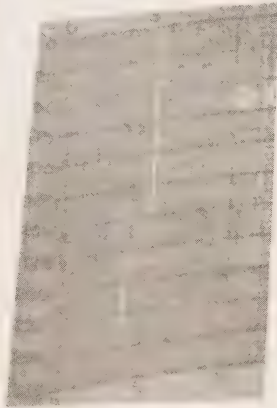
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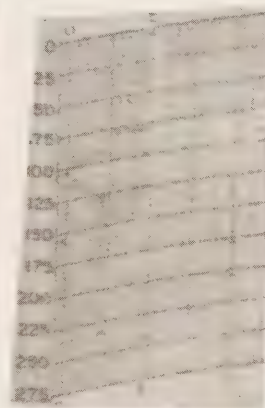
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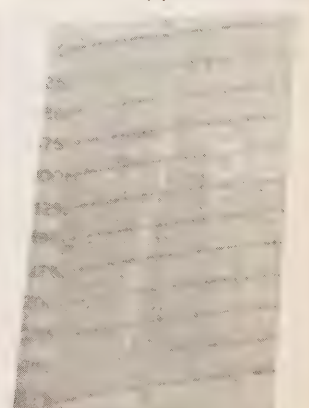
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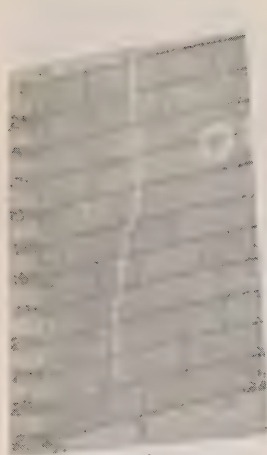
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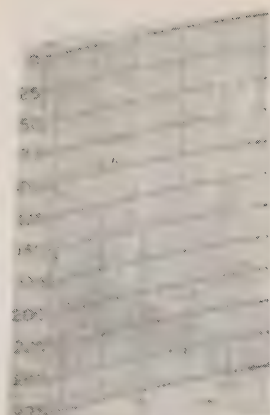
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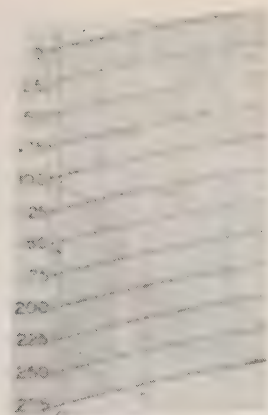
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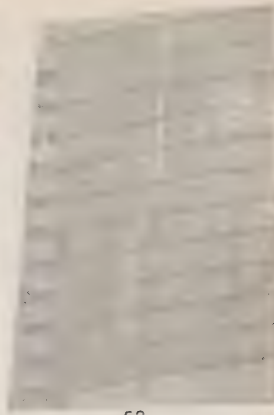
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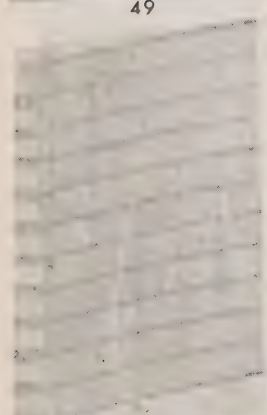
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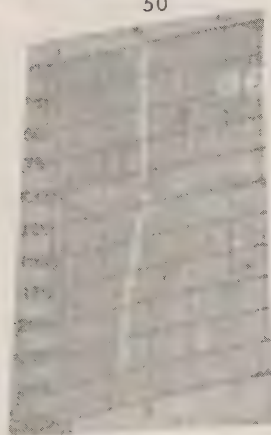
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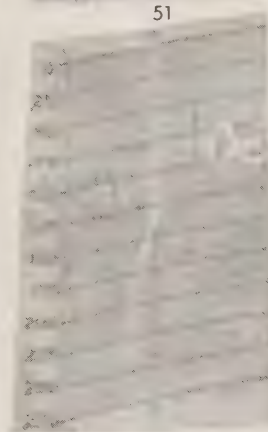
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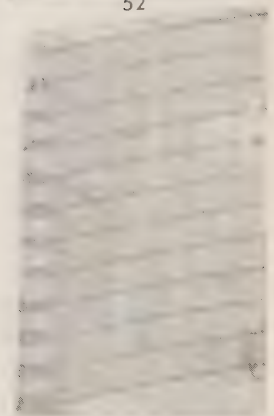
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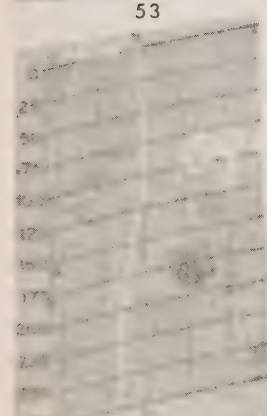
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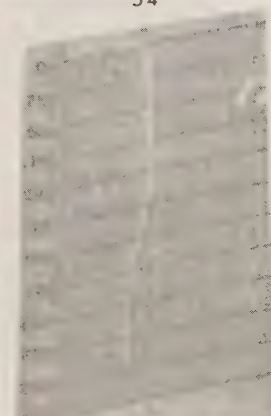
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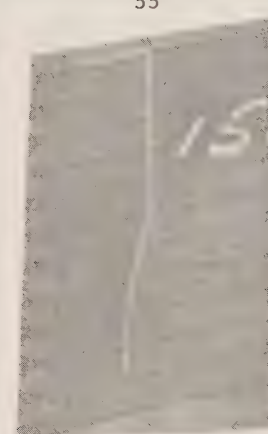
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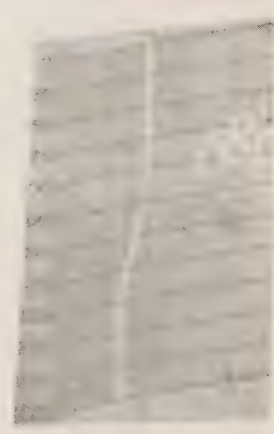
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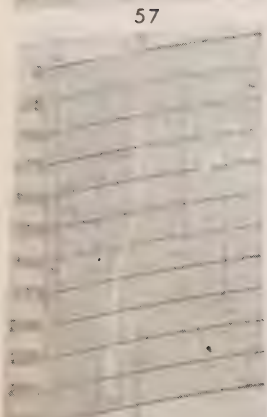
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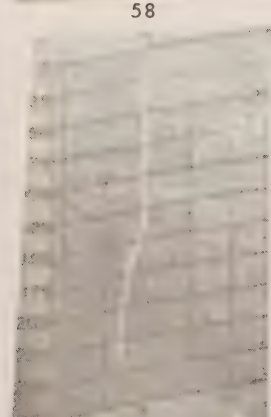
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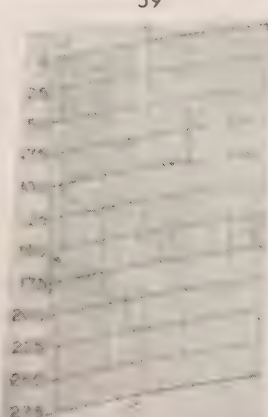
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62



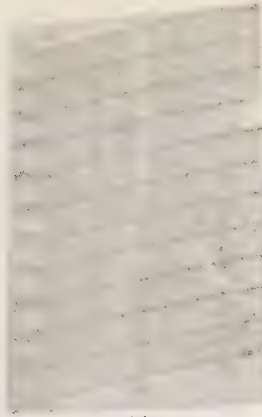
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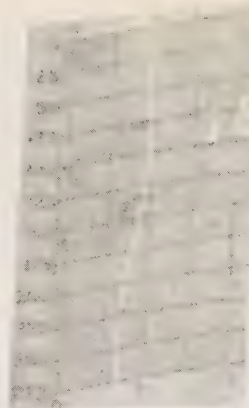
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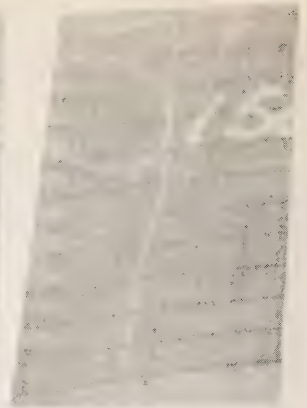
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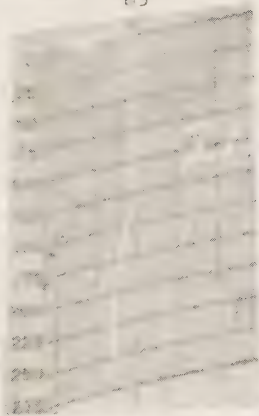
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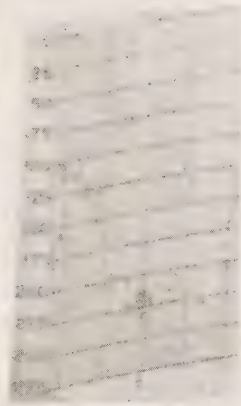
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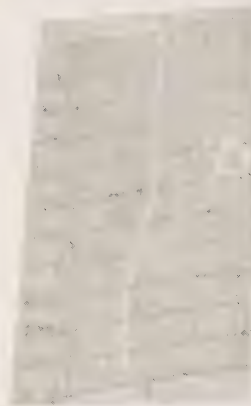
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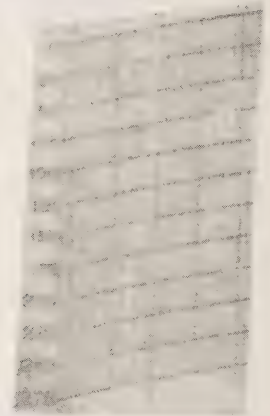
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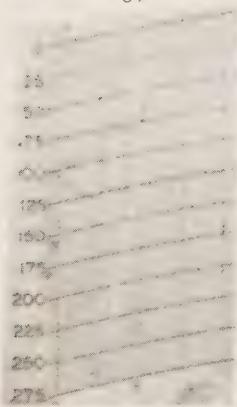
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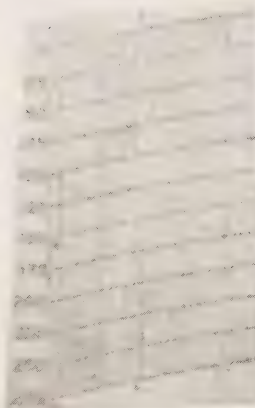
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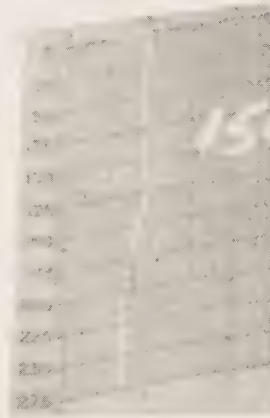
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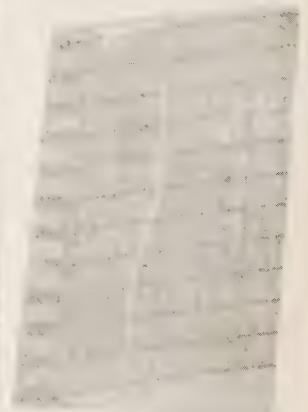
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74



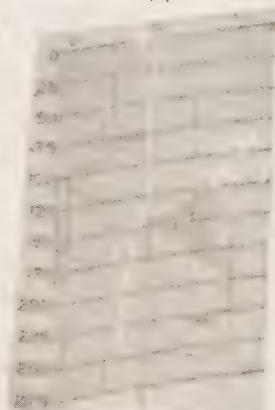
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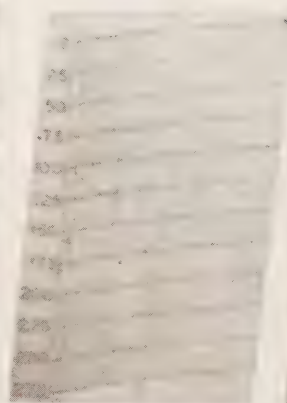
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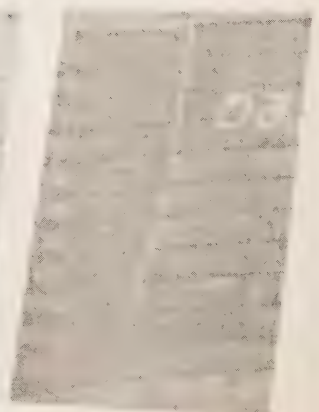
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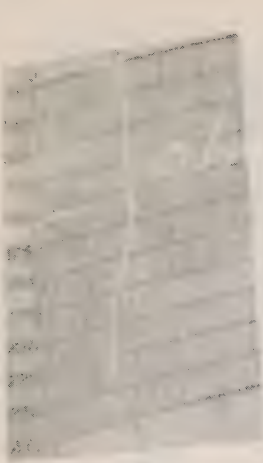
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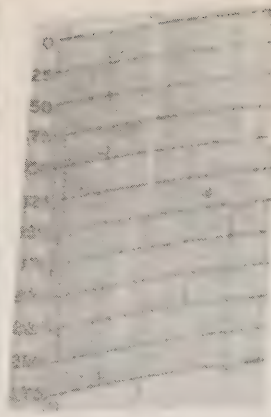
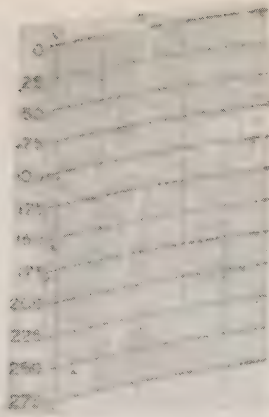
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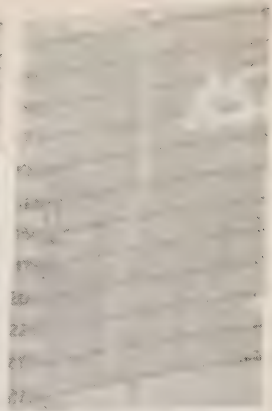
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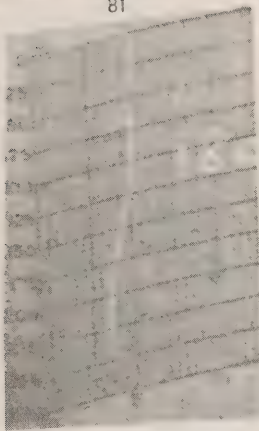
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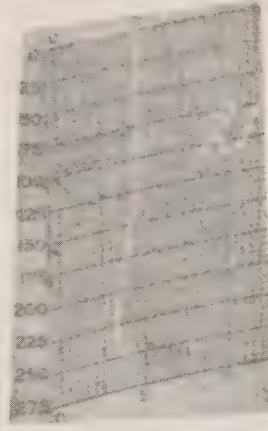
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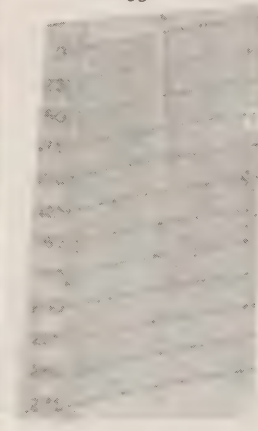
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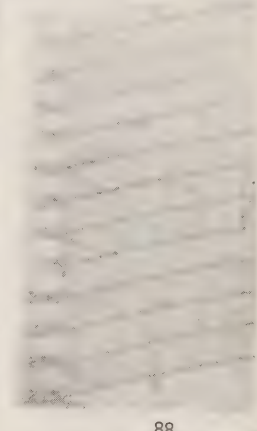
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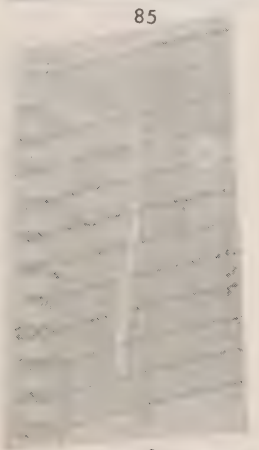
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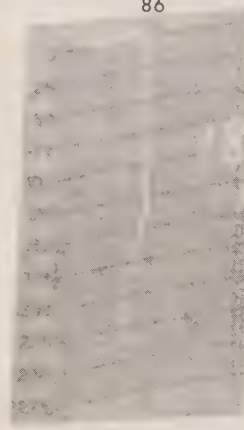
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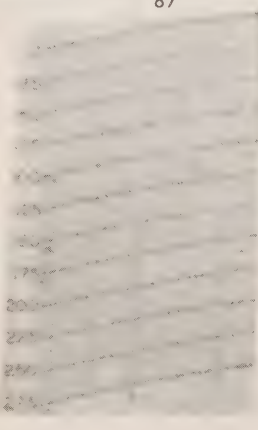
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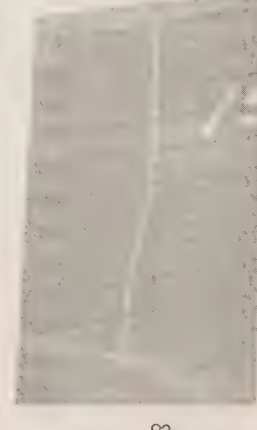
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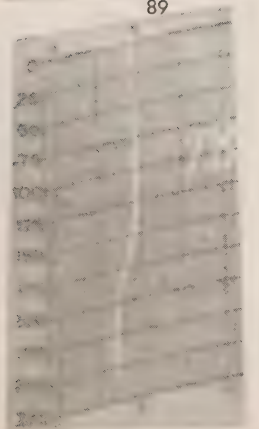
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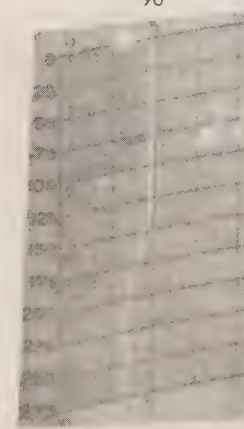
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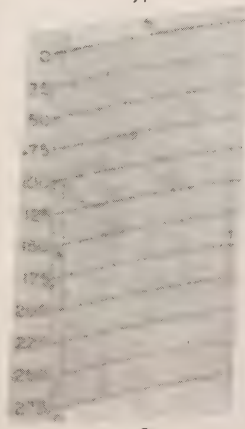
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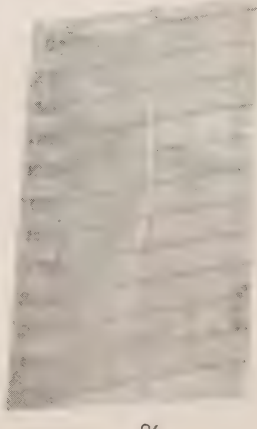
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94



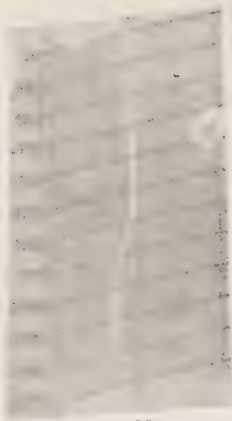
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96



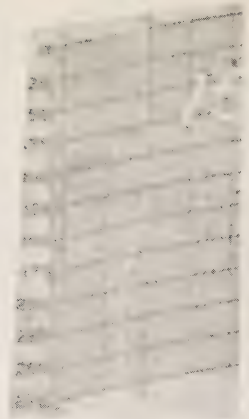
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98



99



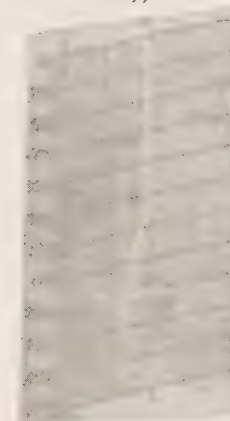
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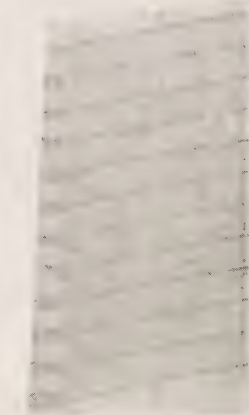
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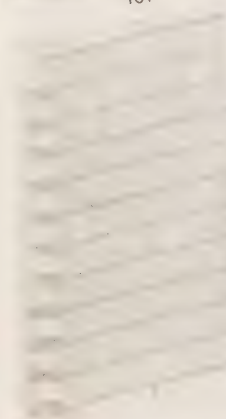
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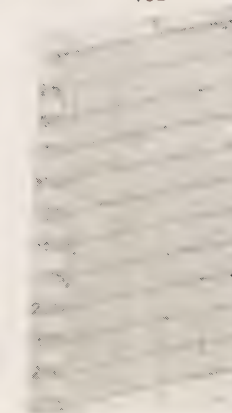
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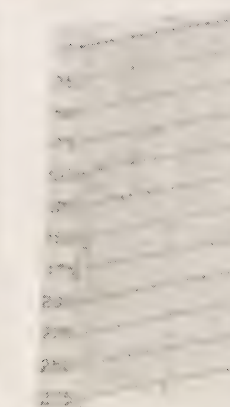
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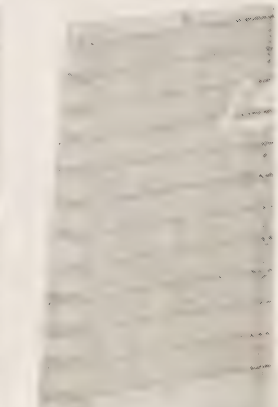
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106



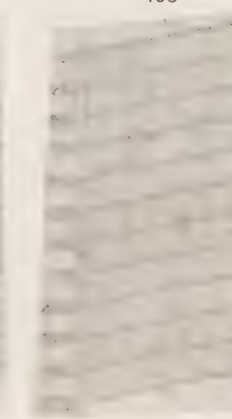
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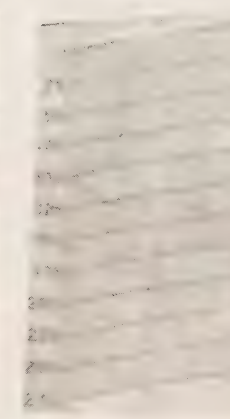
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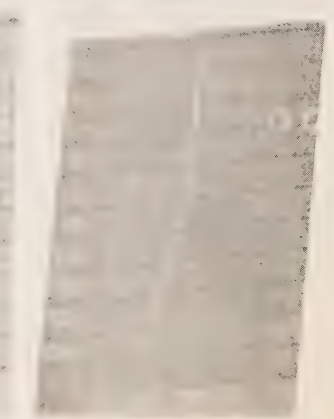
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141



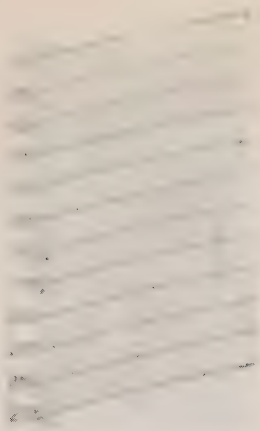
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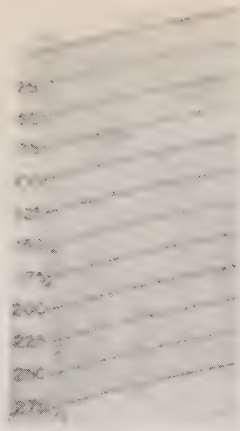
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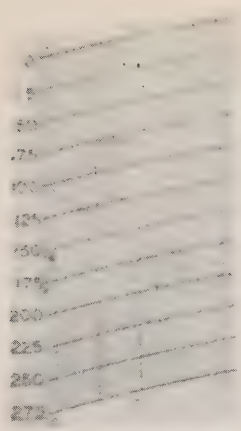
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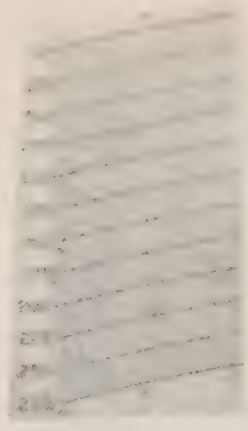
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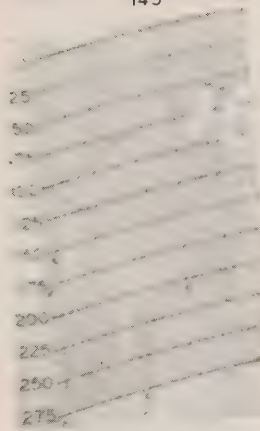
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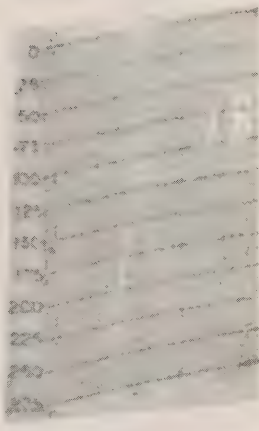
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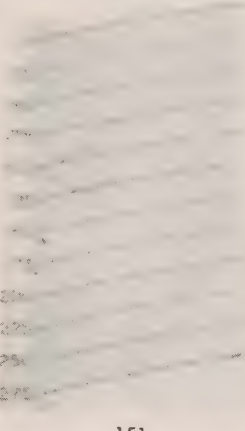
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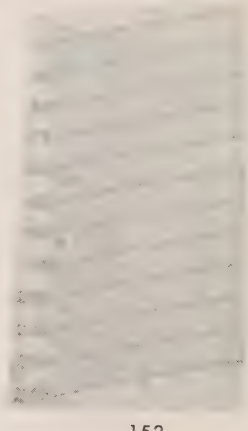
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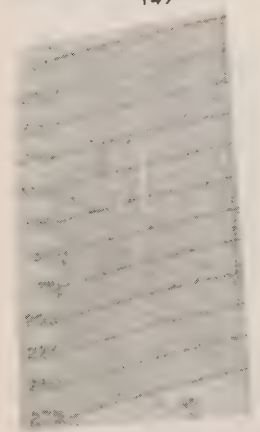
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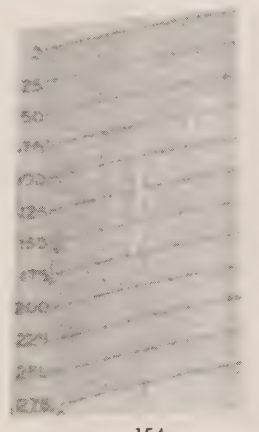
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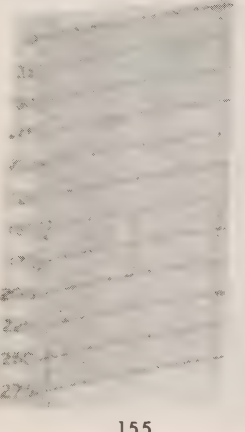
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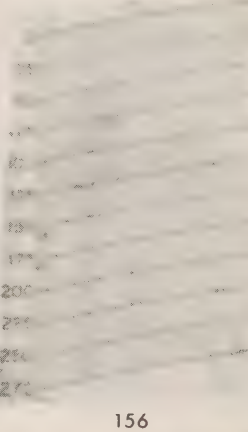
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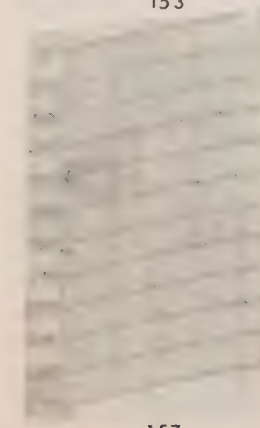
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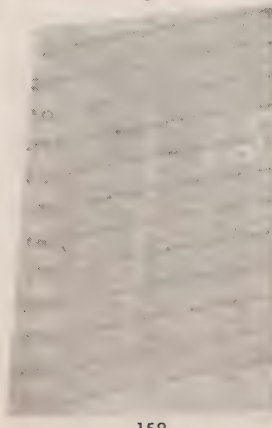
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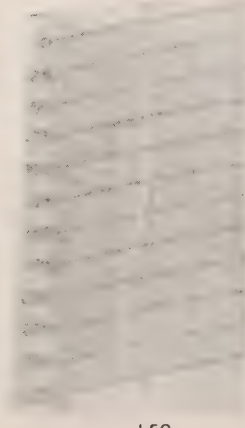
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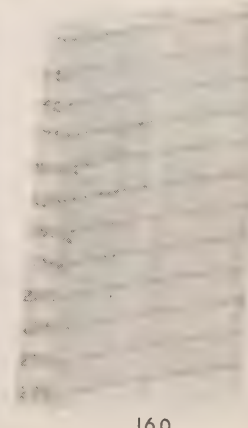
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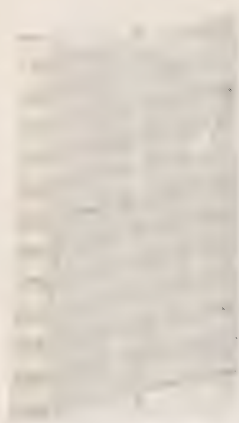
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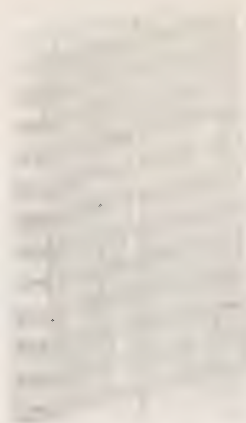
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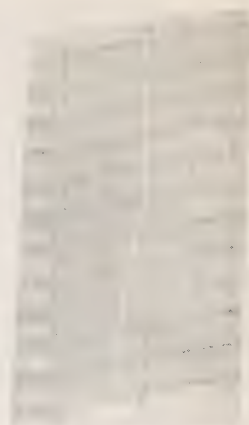
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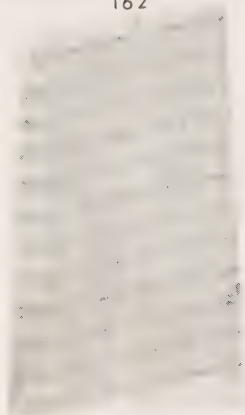
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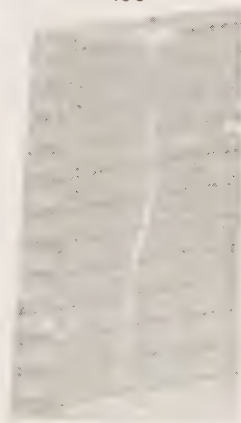
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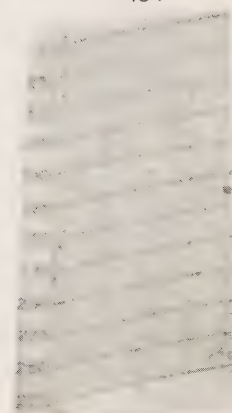
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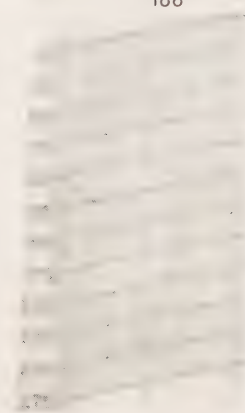
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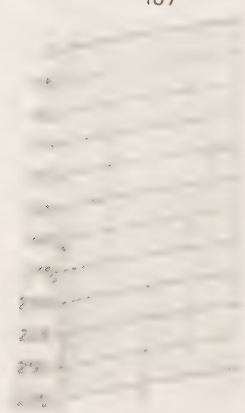
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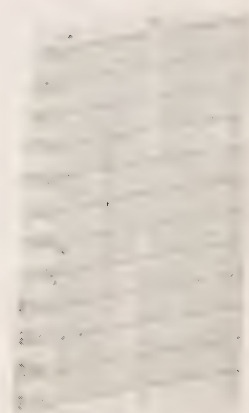
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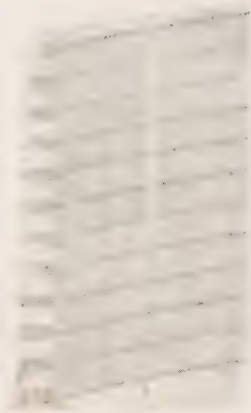
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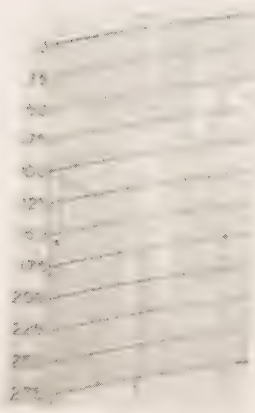
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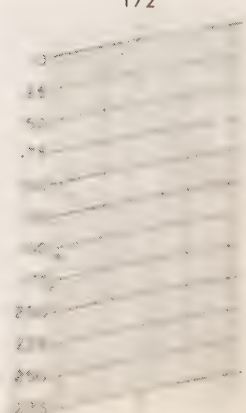
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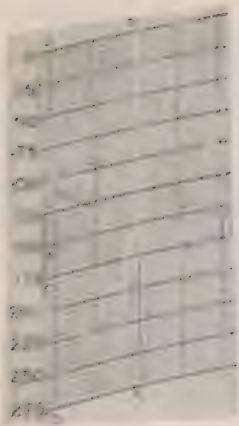
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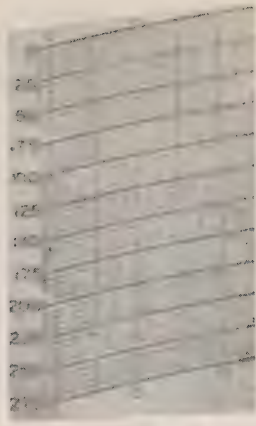
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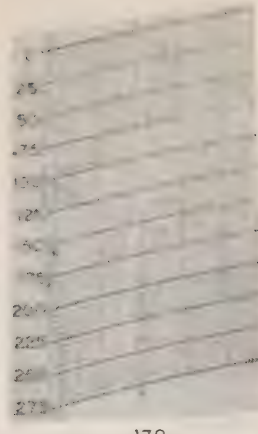
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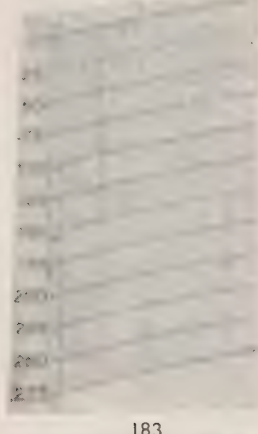
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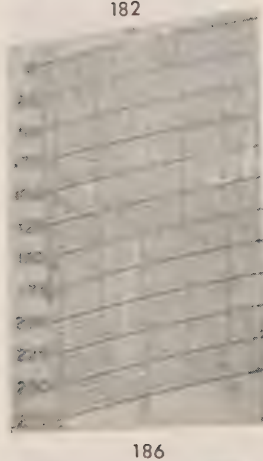
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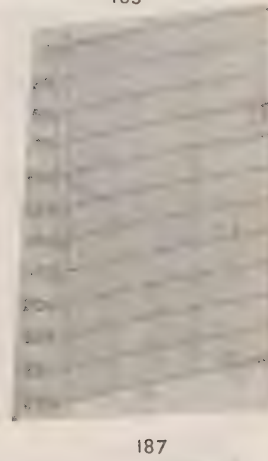
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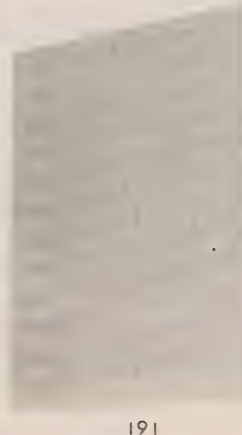
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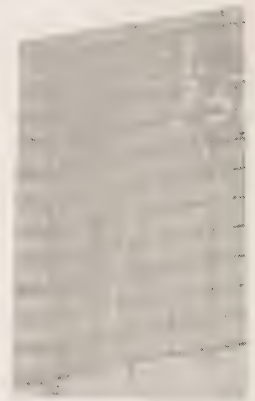
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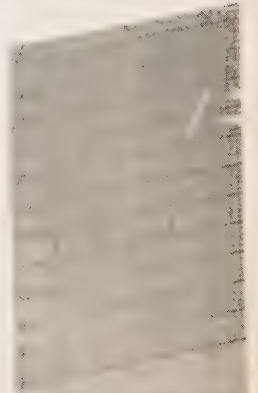
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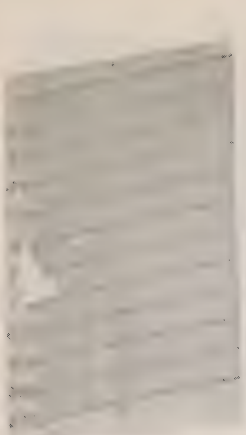
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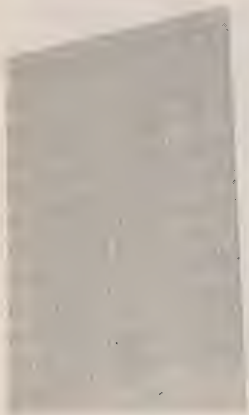
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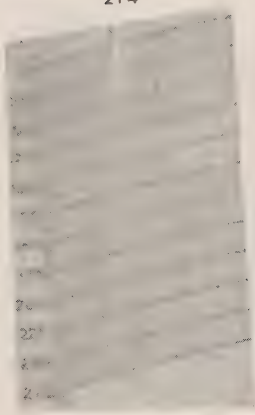
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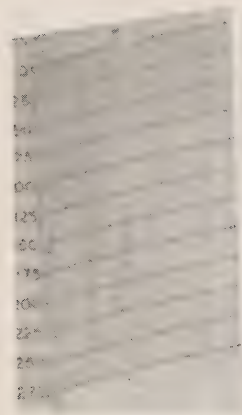
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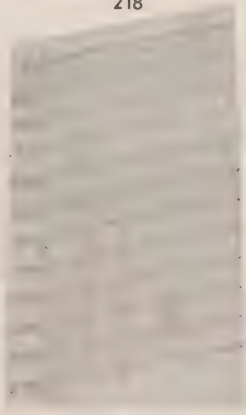
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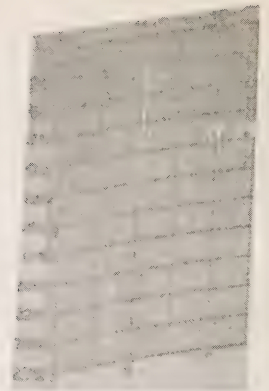
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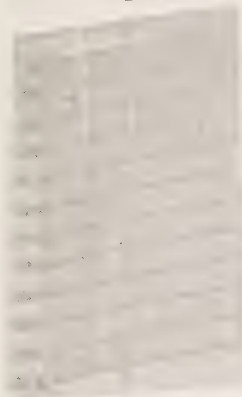
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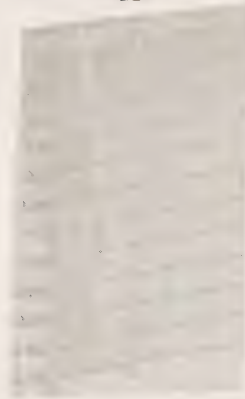
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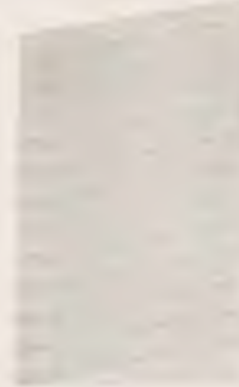
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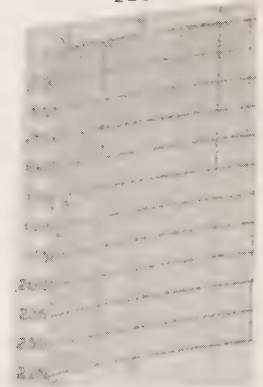
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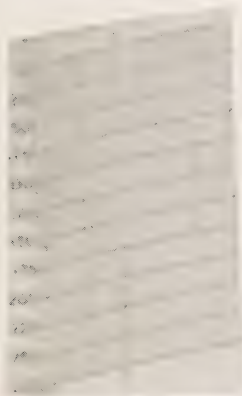
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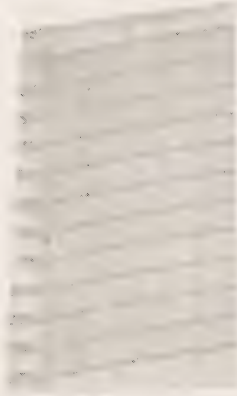
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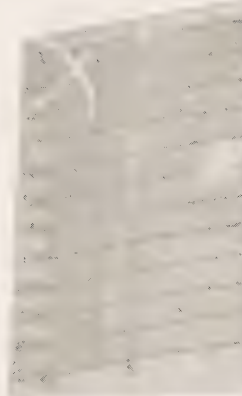
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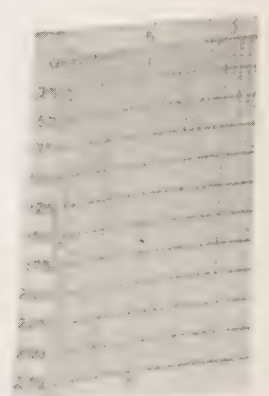
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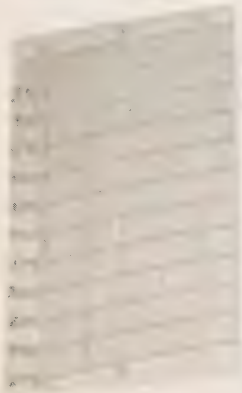
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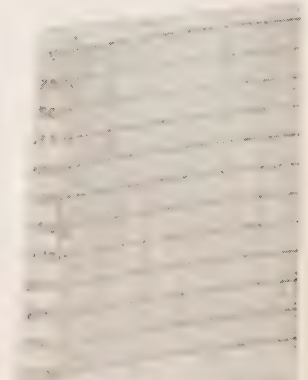
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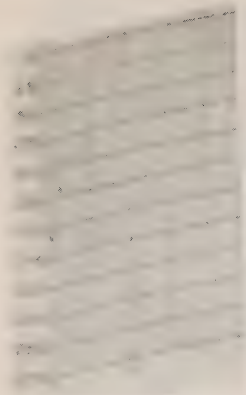
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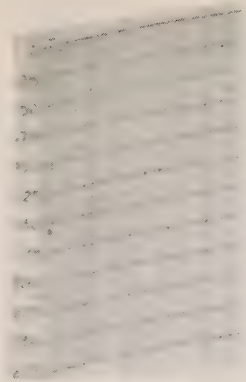
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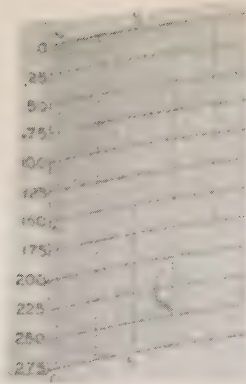
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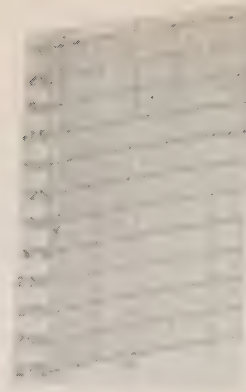
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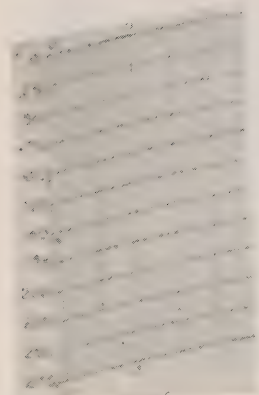
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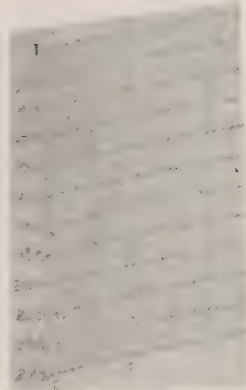
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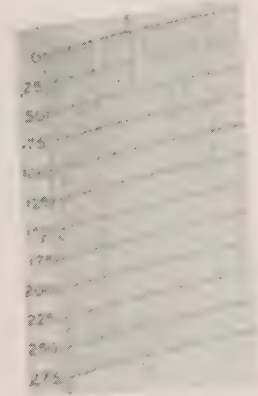
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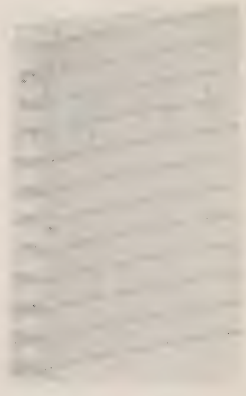
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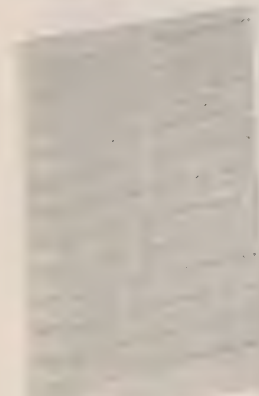
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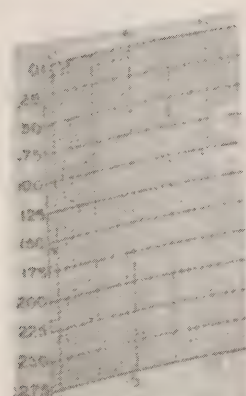
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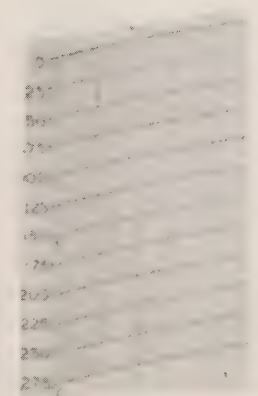
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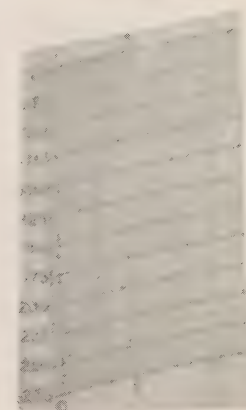
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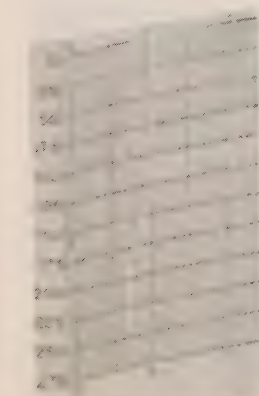
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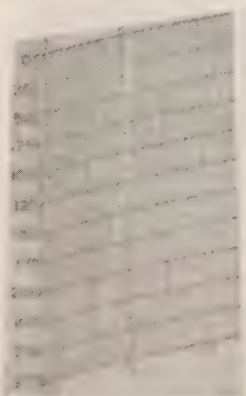
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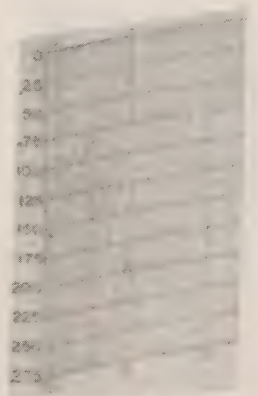
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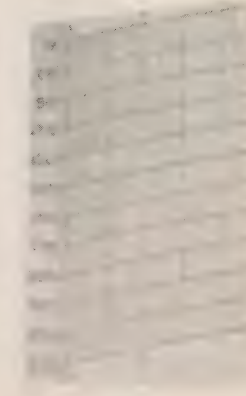
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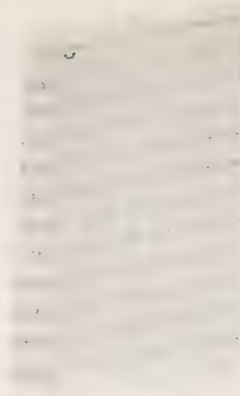
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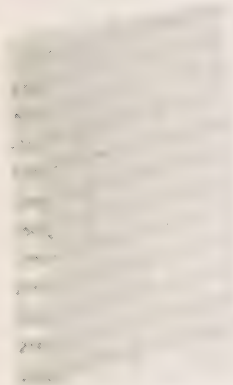
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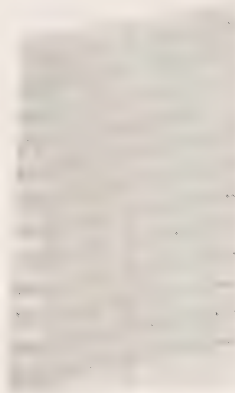
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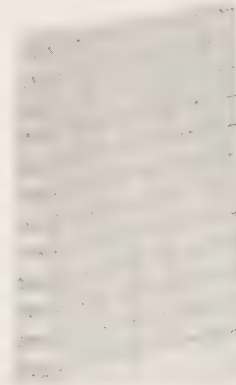
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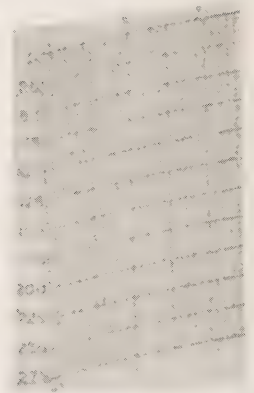
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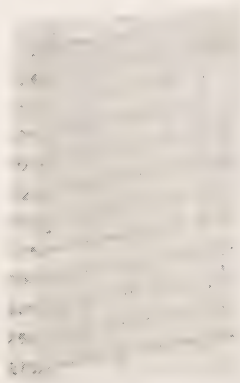
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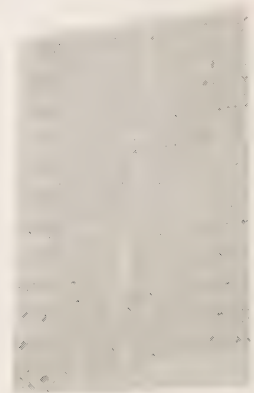
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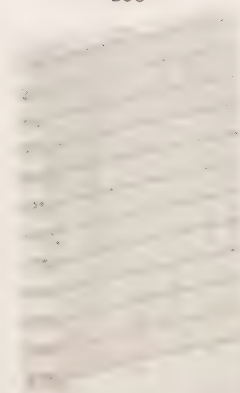
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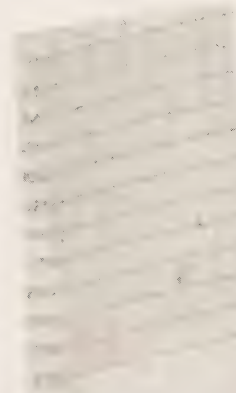
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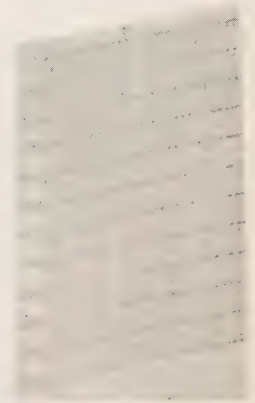
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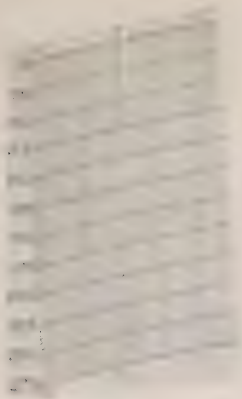
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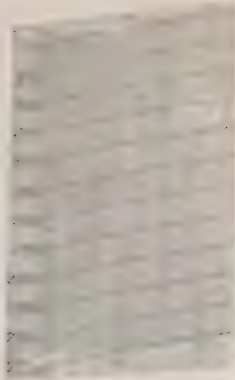
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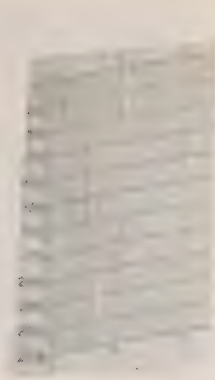
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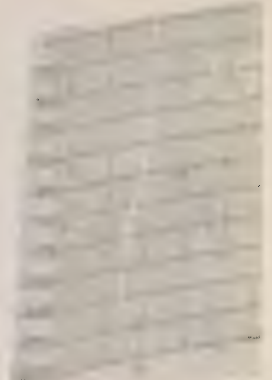
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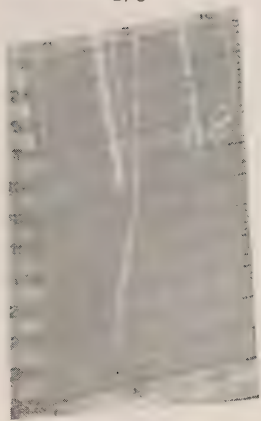
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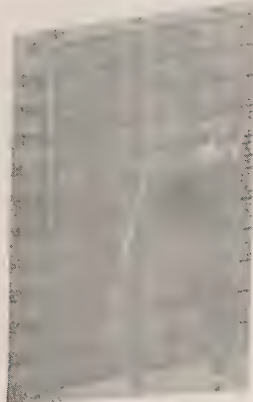
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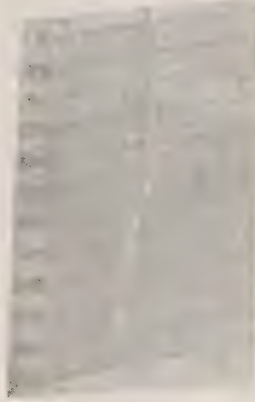
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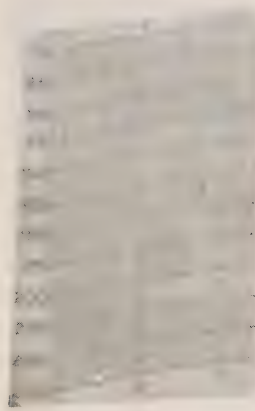
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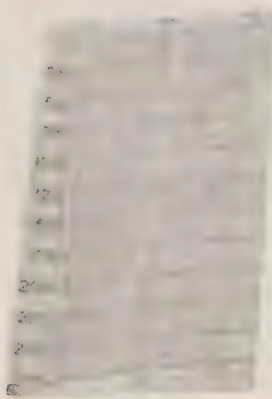
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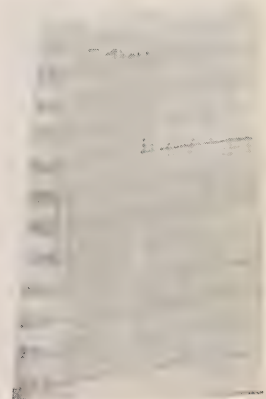
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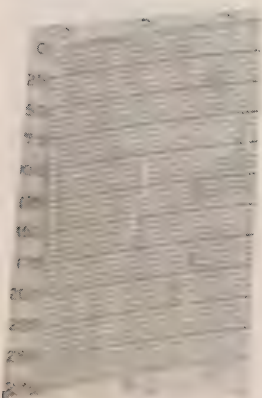
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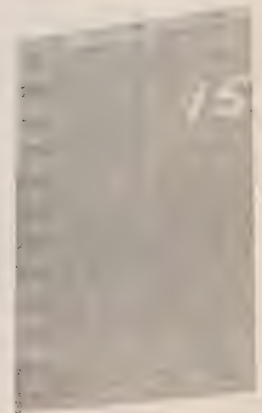
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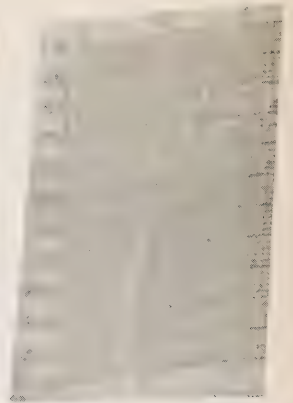
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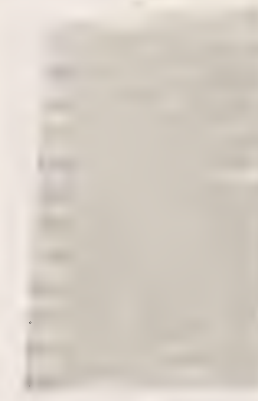
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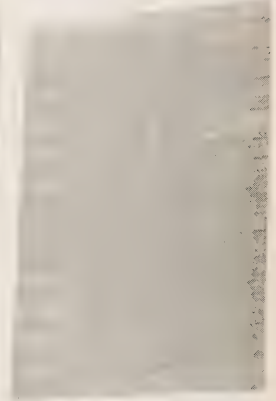
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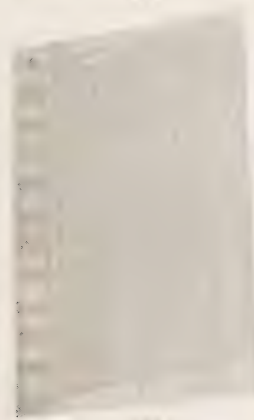
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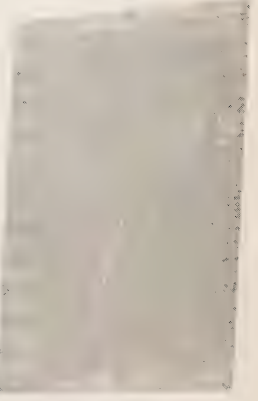
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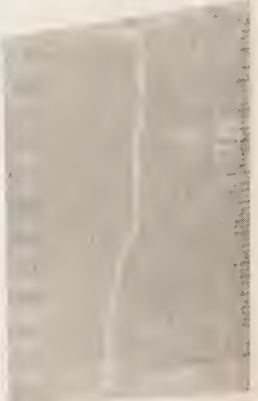
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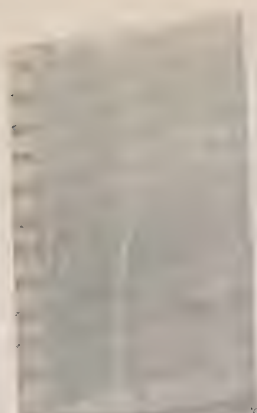
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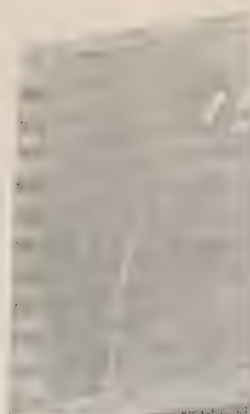
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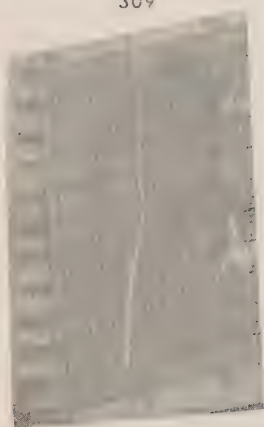
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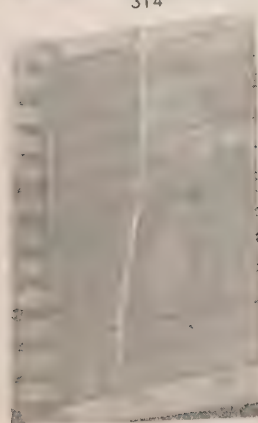
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316



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325



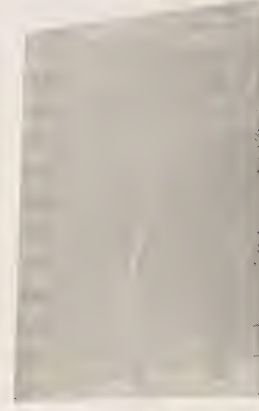
326



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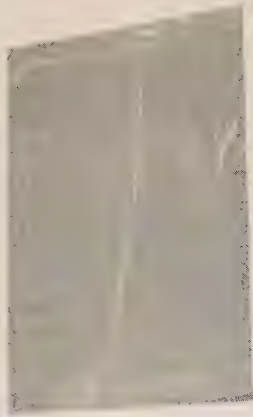
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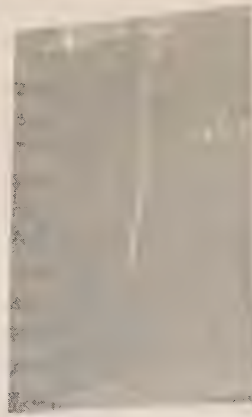
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338



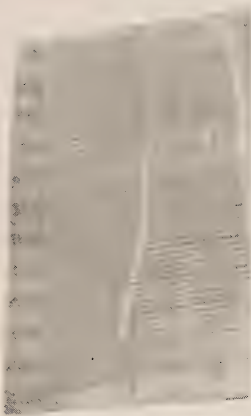
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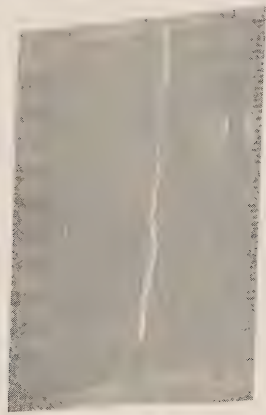
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341



342



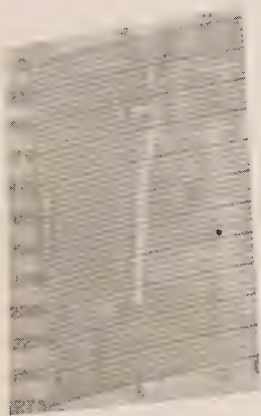
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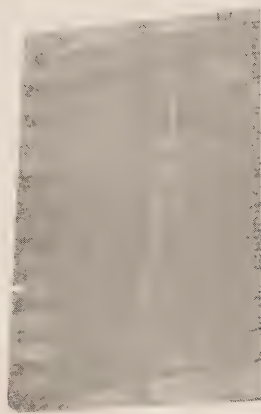
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346



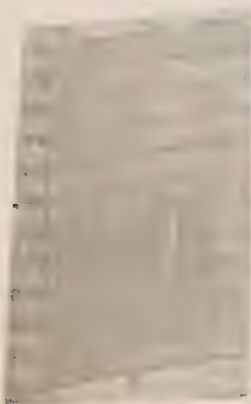
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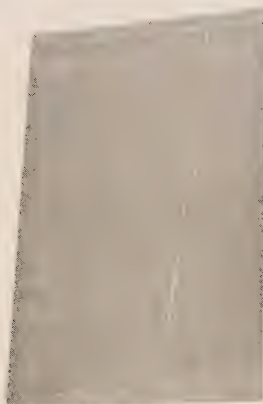
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353

CCGS "STONETOWN" Patrol No. 69

BATHYTHERMOGRAMS

TABLE I

CON No	LAT		LONG		DATE			TIME		DEPTH Metres	BAR Mbs	W W Code	WIND Aml	W-I		W-II		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
001	48	34	125	32	16	04	66	00	47	0070	40	02	20	23	00	0	0		
002	48	39	126	00	16	04	66	01	55	0060		02	20	23	00	0	0		
003	49	34	136	40	17	04	66	18	45	2064	37	02	20	22	00	6	8		
004	49	34	137	40	17	04	66	22	30	2105		02	15	22	00	6	8		
005	49	38	138	40	18	04	66	01	15	2127		02	15	22	00	6	8		
006	49	40	139	40	18	04	66	04	15	2100		02	20	22	00	6	9		
007	49	40	140	40	18	04	66	08	00	2122		21	20	22	00	6	8		
008	49	47	141	40	18	04	66	12	10	2171	36	02	10	11	11	1	1		
009	49	46	142	00	18	04	66	18	00	2138	35	47	07	20	22	8	9		
010	49	50	143	30	18	04	66	21	00	2250	35	45	10	21	2X	8	9		
011	49	56	144	25	19	04	66	00	00	2308	34	02	11	22	2X	7	8		
012	49	58	145	03	19	04	66	03	00	2308	33	02	06	20	22	6	8		
013	49	59	145	04	19	04	66	06	00	2308	33	02	02	2X	2X	6	8		
014	50	02	145	01	19	04	66	09	00	2308	32	02	09	2X	2X	7	8		
015	50	05	145	01	19	04	66	12	00	2308	31	02	12	2X	2X	7	8		
016	50	03	144	55	19	04	66	15	00	2308	30	02	10	24	23	7	8		
017	50	01	144	54	19	04	66	18	00	2308	30	02	08	22	2X	6	8		
018	50	02	144	53	19	04	66	21	00	2308	30	02	12	23	2X	6	8		
019	49	56	145	02	20	04	66	00	00	2308	28	02	17	23	2X	6	8		
020	50	00	145	04	20	04	66	03	00	2308	27	02	14	23	2X	6	8		
021	50	00	145	04	20	04	66	06	00	2308	27	02	13	2X	2X	7	8		
022	50	01	145	01	20	04	66	09	00	2308	26	51	14	2X	2X	7	8		
023	50	06	144	56	20	04	66	12	00	2308	24	51	14	2X	2X	7	8		
024	50	02	144	58	20	04	66	15	00	2308	24	20	15	22	2X	7	8		
025	50	03	144	52	20	04	66	18	00	2308	23	02	14	23	2X	6	8		
026	50	02	144	50	20	04	66	21	00	2308	23	02	18	23	2X	6	5		
027	50	00	145	00	21	04	66	00	00	2308	23	02	21	23	2X	6	7		
028	50	01	145	07	21	04	66	03	00	2308	22	03	18	23	2X	6	8		
029	50	01	145	07	21	04	66	06	00	2308	22	02	13	2X	2X	6	8		
030	50	02	145	07	21	04	66	09	00	2308	21	02	16	2X	2X	7	8		

TABLE I

STATION No.	LAT		LONG		DATE			TIME		DEPTH Metres	BAR Mbs	W W Code	WIND Amt	W-I		W-II		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
031	50	00	144	54	21	04	66	12	00	2308	20	02	18	2X		2X		7	8
032	50	06	144	54	21	04	66	15	00	2308	19	02	21	25		24		7	8
033	50	03	144	53	21	04	66	18	00	2308	20	02	27	25		23		7	8
034	50	02	144	55	21	04	66	21	00	2308	19	02	27	26		23		6	8
035	50	04	144	57	22	04	66	00	00	2308	19	02	22	23		22		6	7
036	49	58	145	03	22	04	66	03	00	2308	19	02	24	24		22		6	8
037	49	50	145	10	22	04	66	06	00	2308	20	20	20	2X		2X		7	8
038	49	56	145	07	22	04	66	09	00	2308	20	51	19	2X		2X		7	8
039	49	58	145	04	22	04	66	12	00	2308	20	51	12	2X		2X		7	8
040	49	59	145	01	22	04	66	15	00	2308	21	61	12	22		22		7	8
041	49	58	145	00	22	04	66	18	00	2308	21	61	14	23		22		7	8
042	50	02	144	52	22	04	66	21	00	2308	22	51	16	23		22		6	8
043	50	00	144	58	23	04	66	00	00		22	51	20	23		22		7	8
044	49	55	145	08	23	04	66	03	00	2308	24	51	20	24		22		7	8
045	49	48	145	04	23	04	66	06	00	2308	26	10	10	2X		2X		7	8
046	50	00	145	02	23	04	66	09	00	2308	27	45	07	2X		2X		8	9
047	50	03	144	59	23	04	66	12	00	2308	27	45	06	2X		2X		8	9
048	50	05	144	56	23	04	66	15	00	2308	28	45	08	23		25		8	9
049	49	58	144	57	23	04	66	18	00	2308	30	10	10	22		25		7	8
050	49	58	144	54	23	04	66	21	00	2308	31	02	05	21		25		6	8
051	49	56	144	56	24	04	66	00	00	2308	31	02	04	20		22		6	8
052	49	54	144	52	24	04	66	03	00	2308	32	02	10	20		22		6	7
053	49	56	144	57	24	04	66	06	00	2308	33	02	09	2X		2X		6	2
054	50	02	145	06	24	04	66	09	00	2308	34	02	11	2X		2X		6	3
055	50	03	145	00	24	04	66	12	00	2308	34	02	10	2X		2X		6	8
056	50	08	144	55	24	04	66	15	00	2308	34	02	10	20		22		6	7
057	50	02	144	55	24	04	66	18	00	2308	36	02	16	21		22		8	7
058	49	59	145	02	24	04	66	21	00	2308	37	02	14	23		2X		6	6
059	49	58	144	56	25	04	66	00	00	2308	37	02	10	22		2X		6	6
060	49	57	144	55	25	04	66	03	00	2308	37	02	07	21		23		6	6

TABLE I

CON No	LAT		LONG		DATE			TIME		DEPTH Metres	BAR Mbs	W W Code	WIND Amt	W - I		W - II		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	I	A
061	50	00	144	59	25	04	66	06	00	2308	38	01	10	2X	2X	6	1		
062	50	03	145	04	25	04	66	09	00	2308	38	02	00	2X	2X	6	3		
063	49	54	145	03	25	04	66	12	00	2308	38	02	00	2X	2X	6	8		
064	50	03	145	00	25	04	66	15	00	2308	37	02	07	20	23	6	7		
065	50	04	145	03	25	04	66	18	00	2308	38	02	15	23	2X	6	8		
066	50	05	145	05	25	04	66	21	00	2308	36	02	15	23	2X	6	8		
067	50	05	145	05	26	04	66	00	00	2308	34	02	26	24	2X	6	8		
068	49	59	144	55	26	04	66	03	00	2308	33	02	23	24	2X	6	8		
069	49	54	144	53	26	04	66	06	00	2308	33	02	28	2X	2X	6	8		
070	49	55	144	52	26	04	66	09	00	2308	29	02	23	2X	2X	6	8		
071	49	55	144	48	26	04	66	12	00	2308	27	02	29	2X	2X	6	8		
072	49	52	144	45	26	04	66	15	00	2308	25	02	31	25	2X	6	8		
073	50	04	144	46	27	04	66	00	00	2308	27	02	15	23	27	6	8		
074	49	52	144	55	27	04	66	03	00	2308	27	02	14	23	25	6	2		
075	50	01	145	01	27	04	66	06	00	2308	29	02	16	2X	2X	6	2		
076	50	02	145	00	27	04	66	09	00	2308	30	02	13	2X	2X	6	6		
077	50	03	144	56	27	04	66	12	00	2308	31	02	10	2X	2X	6	8		
078	50	09	144	55	27	04	66	15	00	2308	31	02	11	23	25	6	8		
079	50	02	145	03	27	04	66	18	00	2308	32	02	11	22	24	0	6		
080	50	02	145	04	27	04	66	21	00	2308	32	02	10	22	24	8	4		
081	50	01	145	03	28	04	66	00	00	2308	31	02	06	22	24	6	6		
082	50	04	145	00	28	04	66	03	00	2308	30	02	08	22	24	6	8		
083	50	03	145	00	28	04	66	06	00	2308	28	02	12	2X	2X	6	6		
084	50	08	144	59	28	04	66	09	00	2308	27	02	14	2X	2X	6	4		
085	50	11	144	54	28	04	66	12	00	2308	24	21	11	2X	2X	6	7		
086	50	14	144	58	28	04	66	15	00	2308	21	02	16	22	23	6	8		
087	50	09	144	58	28	04	66	18	00	2308	19	61	21	22	23	7	8		
088	50	03	145	01	28	04	66	21	00	2308	15	61	28	23	23	7	8		
089	50	02	145	03	29	04	66	03	00	2308	08	02	17	25	23	7	8		
090	50	05	145	01	29	04	66	06	00	2308	07	02	15	2X	2X	6	3		

TABLE I

CON No	LAT		LONG		DATE			TIME		DEPTH Metres	BAR Mbs	WW Code	WIND Amt	W-I		W-II		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
091	50	01	145	00	29	04	66	09	00	2308	05	02	07	2X		2X		6	2
092	50	04	145	00	29	04	66	12	00	2308	02	03	11	2X		2X		6	8
093	50	07	145	00	29	04	66	15	00	2308	00	61	04	24		2X		6	8
094	50	01	145	01	29	04	66	18	00	2308	00	21	23	24		2X		6	7
095	50	03	144	59	29	04	66	21	00	2308	02	02	20	24		25		6	7
096	50	00	144	56	30	04	66	00	00	2308	03	03	21	25		2X		8	3
097	49	59	145	10	30	04	66	03	00	2308	03	15	23	25		2X		9	6
098	49	58	145	22	30	04	66	06	00	2308	02	02	14	2X		2X		6	2
099	49	59	145	11	30	04	66	09	00	2308	00	61	03	2X		2X		6	8
100	50	05	145	07	30	04	66	12	00	2308	-95	61	15	2X		2X		6	8
101	50	06	145	11	30	04	66	15	00	2308	-92	02	16	23		2X		6	5
102	50	03	145	04	30	04	66	18	00	2308	-92	21	12	24		2X		7	8
103	50	04	145	01	30	04	66	21	00	2308	-92	02	11	25		2X		6	6
104	50	03	144	59	01	05	66	00	00	2308	-95	05	5X	2V		2X		=	=
105	50	07	144	58	01	05	66	03	00	2308	-92	01	20	25		2X		6	3
106	50	06	144	58	01	05	66	06	00	2308	-92	02	15	25		26		6	4
107	50	00	145	03	01	05	66	09	00	2308									
108	50	00	145	04	01	05	66	12	00	2308	-92	02	15	25		26		6	4
109	49	55	145	09	01	05	66	15	00	2308	-91	61	16	2X		2X		6	8
110	49	44	145	05	01	05	66	18	00	2308	-94	02	16	23		26		8	4
111	49	49	145	03	01	05	66	21	00	2308	-95	02	10	22		26		8	5
112	49	57	145	06	02	05	66	00	00	2308	-96	01	11	22		25		8	2
113	49	54	145	07	02	05	66	03	00	2308	-97	25	14	22		25		8	7
114	50	01	145	02	02	05	66	06	00	2308	-98	80	12	2X		2X		8	7
115	50	02	144	59	02	05	66	09	00	2308	-98	61	16	2X		2X		6	8
116	50	04	144	56	02	05	66	12	00	2308	00	02	13	2X		2X		6	8
117	50	01	144	49	02	05	66	15	00	2308	02	02	15	24		2X		6	6
118	50	01	144	50	02	05	66	18	00	2308	05	02	24	25		2X		8	8
119	50	02	144	57	02	05	66	21	00	2308	08	01	23	25		2X		8	3
120	50	01	144	54	03	05	66	03	00	2308	12	03	22	24		2X		3	7

TABLE I

CON No	LAT		LONG		DATE			TIME		DEPTH Metres	BAR Mbs	WW Code	WIND Amt	W-1		W-2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	A	A
121	50	03	144	53	03	05	66	06	00	2308	13	02	19	2X	2X	6	6		
122	50	00	145	01	03	05	66	09	00	2308	12	02	24	2X	2X	6	8		
123	50	00	145	13	03	05	66	12	00	2308	11	61	26	2X	2X	6	8		
124	50	05	145	00	03	05	66	15	00	2308	11	51	17	25	2X	4	8		
125	50	04	144	56	03	05	66	18	00	2308	13	02	12	24	2X	7	8		
126	50	07	145	00	03	05	66	21	00	2308	13	02	05	21	24	7	8		
127	50	06	145	00	04	05	66	00	00	2308	11	45	07	20	25	8	9		
128	50	08	145	01	04	05	66	03	00	2308	09	51	14	24	25	8	9		
129	50	07	144	58	04	05	66	06	00	2308	08	02	22	2X	2X	6	4		
130	49	59	144	58	04	05	66	15	00	2308	07	02	12	23	25	6	8		
131	50	03	144	58	04	05	66	18	00	2308	07	02	09	23	25	6	7		
132	50	05	144	59	04	05	66	21	00	2308	08	02	07	20	25	6	8		
133	50	09	144	57	05	05	66	00	00	2308	06	02	08	23	25	6	8		
134	50	11	144	56	05	05	66	03	00	2308	03	02	15	20	25	6	8		
135	50	04	144	59	05	05	66	06	00	2308	-99	61	20	2X	2X	4	8		
136	50	00	145	03	05	05	66	09	00	2308	-97	61	15	2X	2X	4	8		
137	50	01	145	00	05	05	66	12	00	2308	-95	61	21	2X	2X	4	8		
138	50	07	144	59	05	05	66	15	00	2308	-94	02	20	24	25	6	8		
139	50	03	145	00	05	05	66	18	00	2308	-96	02	17	24	24	6	7		
140	50	03	145	00	05	05	66	21	00	2308	-96	02	13	24	25	6	8		
141	50	05	145	00	06	05	66	00	00	2308	-95	61	09	25	24	7	8		
142	50	05	145	00	06	05	66	03	00	2308	-96	21	10	25	24	7	8		
143	50	07	145	02	06	05	66	06	00	2308	-98	02	23	2X	2X	6	7		
144	50	03	145	01	06	05	66	09	00	2308	-99	02	20	2X	2X	6	5		
145	50	05	145	02	06	05	66	12	00	2308	01	02	21	2X	2X	6	1		
146	50	01	145	03	06	05	66	15	00	2308	02	02	12	24	25	6	7		
147	49	57	145	06	06	05	66	18	00	2308	04	01	00	20	23	9	3		
148	50	01	145	05	06	05	66	21	00	2308	05	02	07	20	25	8	4		
149	50	07	144	58	07	05	66	00	00	2308	06	02	13	21	25	8	5		
150	50	00	144	52	07	05	66	03	00	2308	06	02	16	26	25	8	7		

TABLE I

CON No	LAT		LONG		DATE			TIME		DEPTH Metres	BAR Mbs	WW Code	WIND Aml	W-I		W-II		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
151	50	01	144	50	07	05	66	06	00	2308	08	02	22	2X	2X	8	7		
152	49	58	145	00	07	05	66	09	00	2308	10	02	24	2X	2X	8	6		
153	50	04	145	08	07	05	66	12	00	2308	11	02	21	2X	2X	8	2		
154	50	03	145	12	07	05	66	15	00	2308	13	03	12	23	25	6	7		
155	50	00	145	07	07	05	66	18	00	2308	14	02	22	24	26	6	7		
156	50	00	145	02	07	05	66	21	00	2308	14	01	13	23	25	8	2		
157	49	54	145	05	08	05	66	00	00	2308	14	02	17	23	24	8	5		
158	50	00	144	59	08	05	66	03	00	2308	13	03	17	24	23	6	8		
159	49	57	144	57	08	05	66	18	00	2308	11	02	25	26	24	6	7		
160	49	57	144	56	08	05	66	21	00	2308	12	02	21	26	25	6	8		
161	50	04	144	54	09	05	66	00	00	2308	12	02	26	26	24	6	8		
162	49	52	145	17	09	05	66	18	00	2308	19	02	06	24	26	6	8		
163	49	54	145	15	09	05	66	21	00	2308	19	02	03	20	26	6	8		
164	50	01	144	55	10	05	66	00	00	2308	18	02	07	21	25	6	8		
165	50	01	145	00	10	05	66	03	00	2308	16	61	15	22	24	4	8		
166	50	00	145	01	10	05	66	06	00	2308	13	61	23	2X	2X	4	8		
167	50	02	144	58	10	05	66	09	00	2308	12	61	20	2X	2X	4	8		
168	50	09	144	58	10	05	66	12	00	2308	11	02	19	2X	2X	4	8		
169	49	51	144	56	10	05	66	18	00	2308	10	61	16	22	23	4	8		
170	49	51	144	54	10	05	66	21	00	2308	11	21	16	22	24	6	7		
171	49	49	144	58	11	05	66	00	00	2308	13	02	30	24	26	6	5		
172	49	55	145	14	12	05	66	03	00	2308	31	02	08	26	22	8	8		
173	49	56	145	04	12	05	66	06	00	2308	32	01	18	2X	2X	6	8		
174	49	58	145	02	12	05	66	09	00	2308	32	02	10	2X	2X	6	8		
175	49	58	144	52	12	05	66	12	00	2308	32	02	16	2X	2X	6	8		
176	50	01	145	00	12	05	66	15	00	2308	32	15	13	24	2X	6	5		
177	50	07	145	11	12	05	66	18	00	2308	32	02	14	24	2X	6	6		
178	50	04	145	10	12	05	66	21	00	2308	33	02	18	25	2X	6	8		
179	50	04	145	08	13	05	66	00	00	2308	33	02	21	25	27	8	7		
180	49	52	144	58	13	05	66	03	00	2308	33	02	12	25	25	6	8		

TABLE I

CON No	LAT		LONG		DATE			TIME		DEPTH Metres	BAR Mbs	WW Code	WIND Amt	W-I		W-II		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
181	49	59	145	01	13	05	66	06	00	2308	33	02	11	24	23	6	8		
182	50	00	144	57	13	05	66	09	00	2308	33	02	10	2X	2X	6	8		
183	49	58	144	56	13	05	66	12	00	2308	32	02	13	2X	2X	6	8		
184	50	00	144	50	13	05	66	15	00	2308	30	02	20	24	25	6	8		
185	50	00	144	57	13	05	66	18	00	2308	28	61	18	24	24	6	8		
186	49	59	144	48	16	05	66	18	00	2308	11	02	17	22	24	6	8		
187	50	01	144	47	16	05	66	21	00	2308	12	10	15	23	22	7	8		
188	49	58	144	45	17	05	66	00	00	2308	12	10	25	24	23	7	8		
189	49	56	144	59	17	05	66	03	00	2308	11	61	16	23	24	4	8		
190	49	52	145	05	17	05	66	06	00	2308	11	61	18	23	25	7	8		
191	49	55	145	04	17	05	66	09	00	2308	11	61	18	2X	2X	7	8		
192	49	58	145	06	17	05	66	12	00	2308	12	61	18	2X	2X	7	8		
193	49	59	144	58	17	05	66	15	00	2308	13	10	12	23	25	7	8		
194	50	02	144	56	17	05	66	18	00	2308	14	61	08	22	25	4	8		
195	50	04	144	55	17	05	66	21	00	2308	14	61	03	20	24	4	8		
196	50	02	144	59	18	05	66	00	00	2308	14	61	03	21	22	4	8		
197	49	55	145	01	18	05	66	03	00	2308	14	02	05	20	23	7	8		
198	49	55	145	00	18	05	66	06	00	2308	15	51	11	22	23	8	9		
199	49	55	145	01	18	05	66	09	00	2308	17	45	10	2X	2X	8	9		
200	49	56	145	01	18	05	66	12	00	2308	18	45	05	2X	2X	8	9		
201	49	55	145	01	18	05	66	15	00	2308	20	40	03	20	24	6	7		
202	49	55	145	01	18	05	66	18	00	2308	21	02	03	20	23	6	8		
204	50	02	145	00	19	05	66	00	00	2308	21	02	14	23	24	6	8		
205	50	02	144	57	19	05	66	03	00	2308	20	02	19	24	23	6	8		
206	50	00	144	57	19	05	66	06	00	2308	19	02	24	24	23	6	8		
207	50	01	145	02	21	05	66	18	00	2308	21	02	23	25	26	6	7		
208	50	03	145	08	21	05	66	21	00	2308	20	02	24	27	24	6	8		
209	50	09	145	16	22	05	66	00	00	2308	18	02	24	26	25	6	8		
210	50	06	145	55	22	05	66	03	00	2308	17	02	25	27	24	6	7		
211	50	02	144	49	22	05	66	06	00	2308	16	10	27	27	26	6	8		

TABLE I

No.	LAT		LONG		DATE			TIME		DEPTH Metres	BAR Mbs	W W Code	WIND Aml	W-I		W-II		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
212	49	57	144	57	23	05	66	03	00	2308	17	03	20	25	2X			7	7
213	50	00	145	08	23	05	66	06	00	2308	18	02	16	25	2X			6	8
214	49	57	145	06	23	05	66	09	00	2308	17	02	14	2X	2X			6	8
215	49	58	145	00	23	05	66	12	00	2308	17	02	12	2X	2X			6	8
216	50	06	145	07	23	05	66	15	00	2308	17	61	13	24	23			6	8
217	50	11	145	18	23	05	66	18	00	2308	17	02	00	20	23			6	7
218	50	03	145	04	23	05	66	21	00	2308	17	01	04	20	24			3	7
219	50	02	144	57	24	05	66	00	00	2308	17	02	08	21	24			8	6
220	50	02	145	08	24	05	66	03	00	2308	17	02	09	21	24			8	7
221	50	00	145	05	24	05	66	06	00	2308	16	02	05	23	25			8	6
222	49	59	145	05	24	05	66	09	00	2308	16	02	02	2X	2X			6	2
223	50	02	145	03	24	05	66	12	00	2308	13	02	02	2X	2X			2	1
224	49	57	144	59	24	05	66	15	00	2308	13	03	00	20	22			6	5
225	49	57	144	56	24	05	66	18	00	2308	13	02	03	20	23			6	7
226	49	57	144	52	24	05	66	21	00	2308	12	15	15	21	23			8	5
227	49	57	144	49	25	05	66	00	00	2308	12	15	18	23	23			8	5
228	49	56	144	48	25	05	66	03	00	2308	12	15	17	23	23			8	4
229	50	00	144	58	25	05	66	06	00	2308	12	02	18	23	2X			8	5
230	50	01	145	02	25	05	66	09	00	2308	14	02	14	2X	2X			8	3
231	49	59	144	58	25	05	66	12	00	2308	14	27	17	2X	2X			8	8
232	49	54	144	52	25	05	66	15	00	2308	15	02	18	24	25			8	7
233	49	57	144	55	25	05	66	18	00	2308	17	03	28	24	23			8	6
234	49	58	144	57	25	05	66	21	00	2308	19	02	17	24	23			8	4
235	49	59	144	59	26	05	66	00	00	2308	19	02	16	23	24			8	2
236	50	00	144	56	26	05	66	03	00	2308	20	02	14	24	23			6	3
237	50	01	145	00	26	05	66	06	00	2308	20	02	15	23	23			8	5
238	50	03	145	05	26	05	66	09	00	2308	20	02	16	2X	2X			6	8
239	50	01	145	00	26	05	66	12	00	2308	19	21	17	2X	2X			6	8
240	50	03	144	50	26	05	66	15	00	2308	19	02	14	24	23			8	7
241	50	00	144	58	26	05	66	18	00	2308	19	02	23	23	23			8	6

TABLE I

CON No.	LAT		LONG		DATE			TIME		DEPTH Metres	BAR Mbs	WW Code	WIND Am	W 1		W 2		LOUD
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	
242	50	00	144	55	26	05	66	21	00	2308	20	03	18	23	2X			8 8
243	50	02	144	55	27	05	66	00	00	2308	20	02	28	24	23			6 8
244	50	01	145	04	27	05	66	03	00	2308	20	02	31	24	22			6 8
245	50	03	145	10	27	05	66	06	00	2308	22	02	24	24	23			6 8
246	50	02	145	04	27	05	66	09	00	2308	23	02	15	2X	2X			6 8
247	49	57	144	48	27	05	66	12	00	2308	23	02	23	2X	2X			6 8
248	50	02	144	55	27	05	66	15	00	2308	24	10	24	25	26			6 8
249	50	02	145	00	27	05	66	18	00	2308	25	61	28	26	24			6 8
250	50	00	145	00	28	05	66	18	00	2308	27	02	11	24	2X			6 8
251	50	00	144	55	28	05	66	21	00	2308	28	03	11	24	2X			8 5
252	50	02	144	56	29	05	66	00	00	2308	29	02	16	23	2X			6 7
253	50	03	144	59	29	05	66	03	00	2308	29	02	16	23	2X			6 8
254	50	03	144	56	29	05	66	06	00	2308	29	02	15	23	2X			6 8
255	50	02	144	51	29	05	66	09	00	2308	30	02	12	2X	2X			6 8
256	50	01	145	00	29	05	66	12	00	2308	31	03	14	2X	2X			6 5
257	49	58	145	04	29	05	66	15	00	2308	31	02	06	23	24			8 8
258	49	59	145	02	29	05	66	18	00	2308	32	02	04	20	24			6 8
259	50	00	145	00	29	05	66	21	00	2308	33	02	04	20	24			6 8
260	49	58	144	56	30	05	66	00	00	2308	33	02	00	20	23			6 4
261	49	57	144	54	30	05	66	03	00	2308	33	02	03	20	22			6 8
262	49	55	143	35	30	05	66	09	00		34	02	04	X	X			6 8
264	49	47	141	40	30	05	66	18	00	2171	34	02	00	00	00			1 8
268	49	40	137	40	31	05	66	08	00	2105		00	04	03	XX			X 8
271	49	16	134	40	31	05	66	17	00	1941		02	25	45	54			2 8
272	49	06	131	40	01	06	66	02	30	1572		02	20	45	54			3 8
276	48	35	126	40	01	06	66	21	40	0711	20	02	10	XX	XX			6 5
277	48	41	126	08	01	06	66	23	10	0060		02	10	XX	32			3 1
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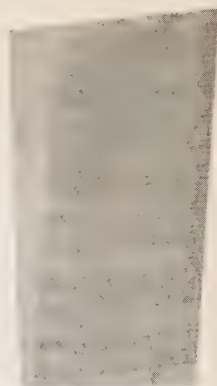
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2



3



4



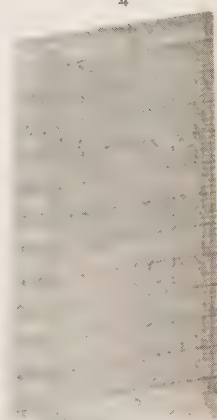
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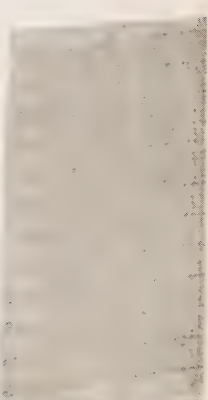
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10



11



12



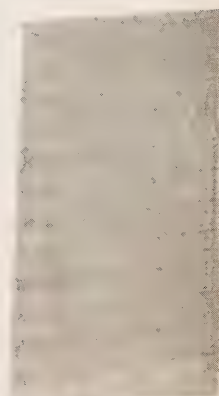
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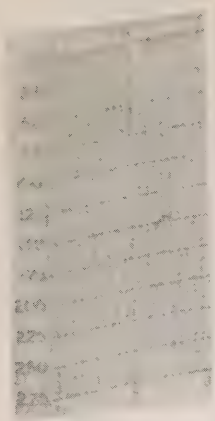
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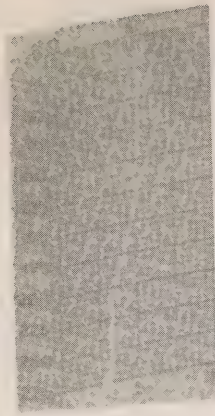
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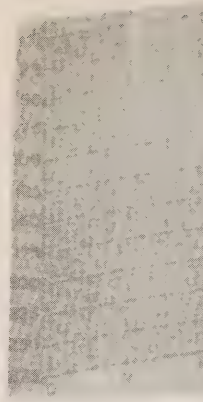
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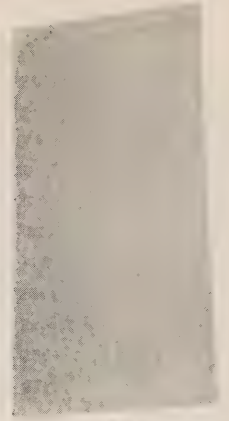
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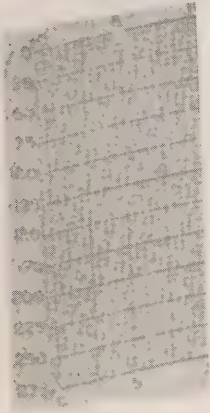
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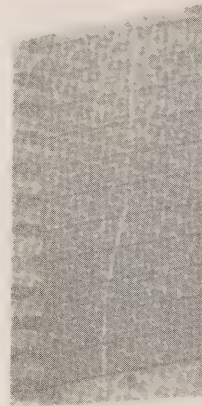
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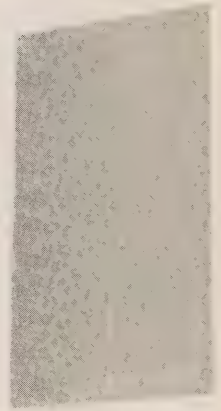
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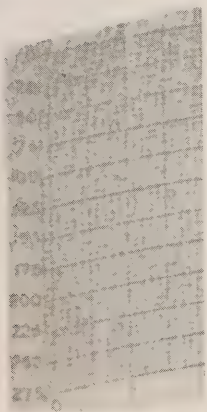
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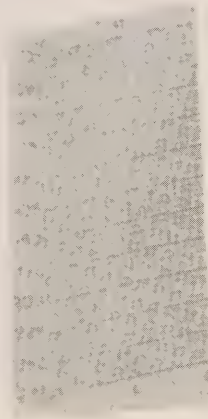
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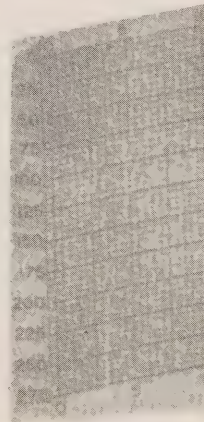
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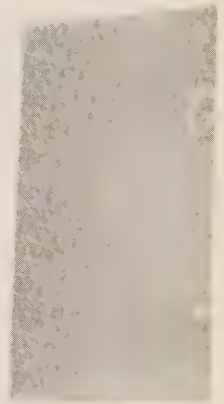
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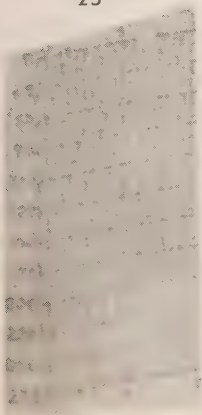
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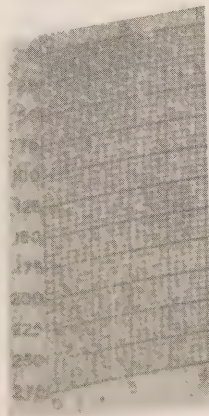
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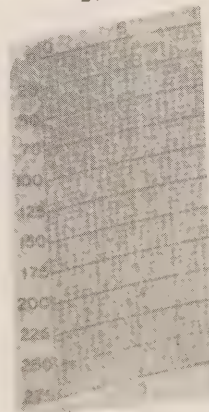
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29



30



31



32



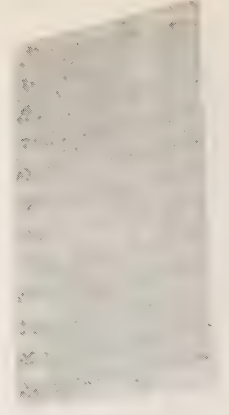
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35



36



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38



39



40



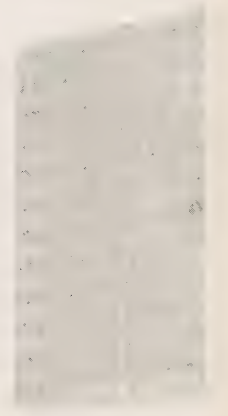
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43



44



45



46



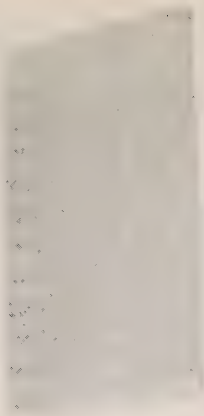
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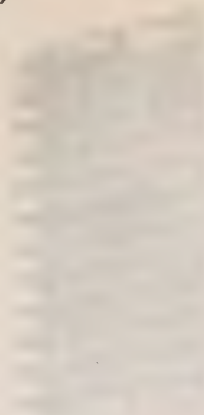
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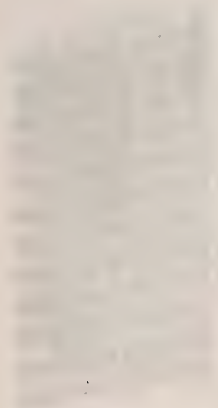
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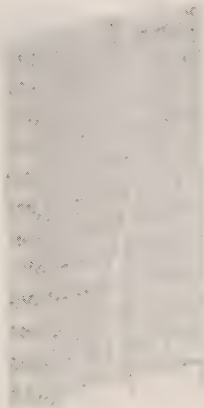
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53



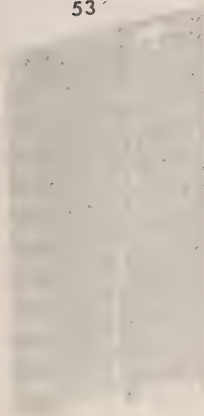
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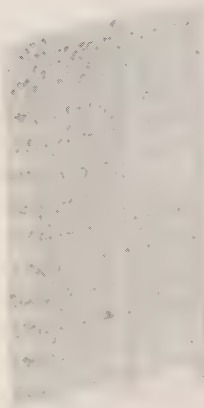
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57



58



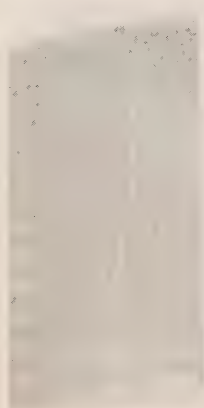
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60



61



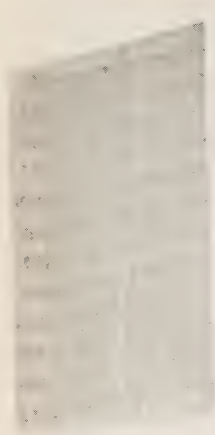
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64



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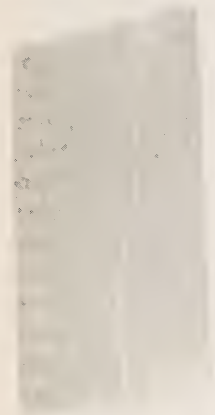
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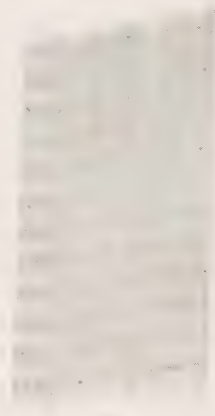
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70



71



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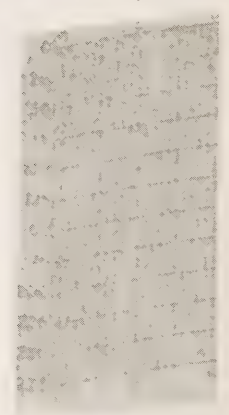
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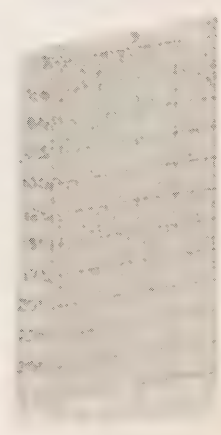
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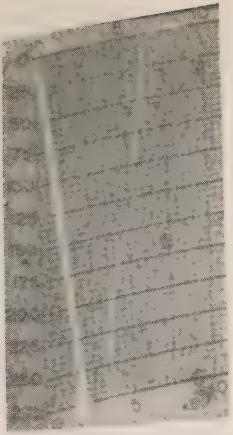
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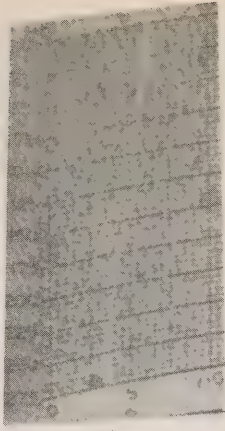
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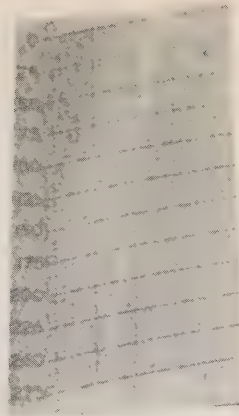
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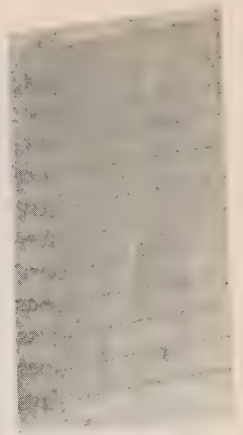
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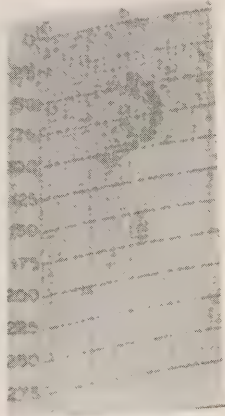
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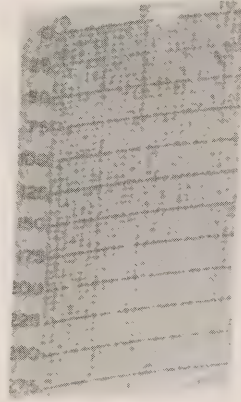
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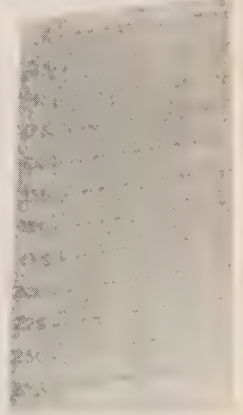
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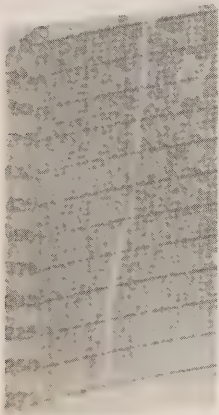
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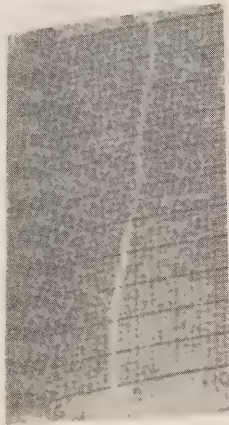
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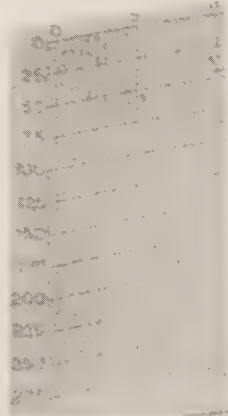
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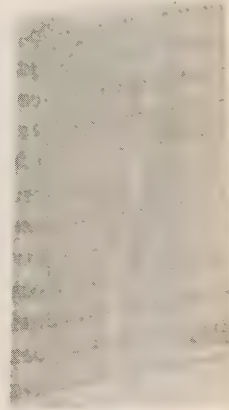
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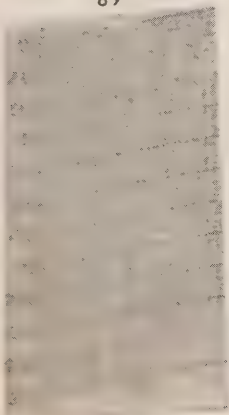
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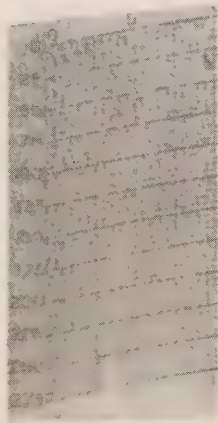
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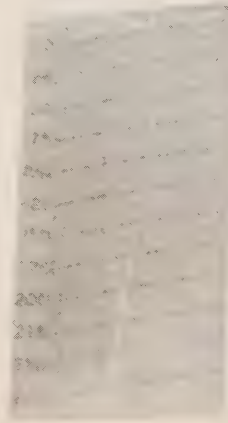
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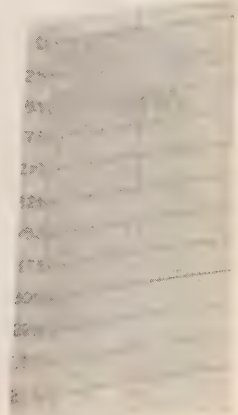
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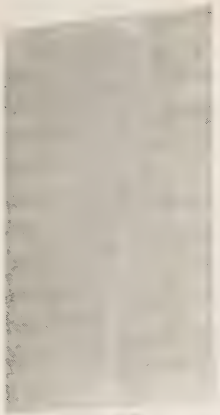
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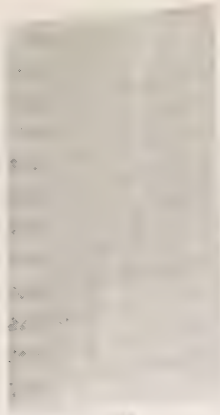
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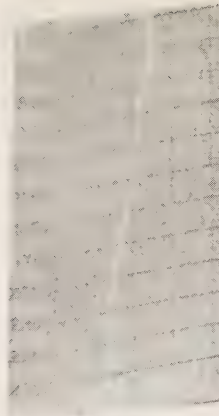
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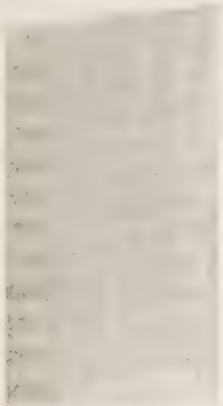
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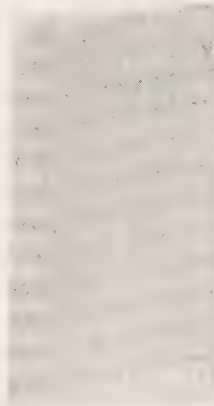
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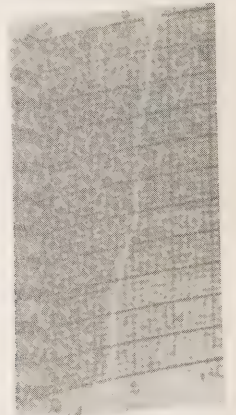
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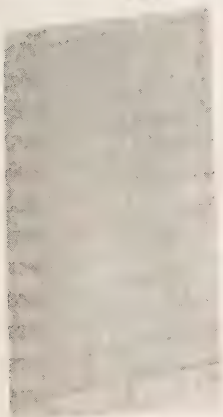
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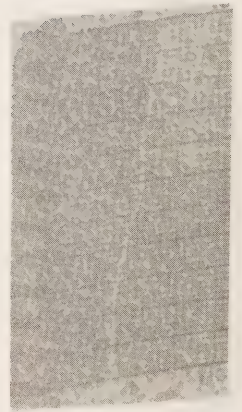
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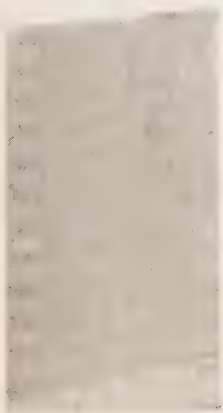
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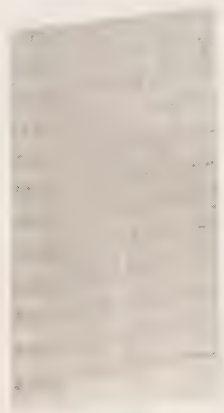
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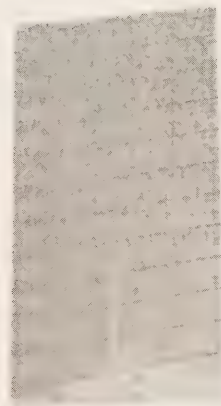
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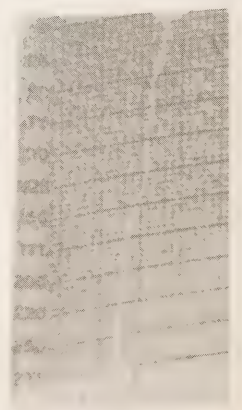
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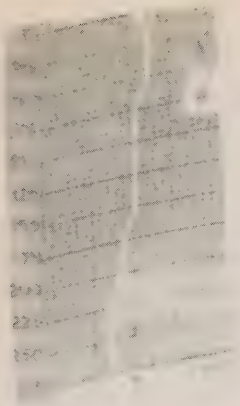
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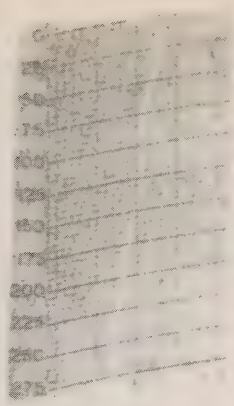
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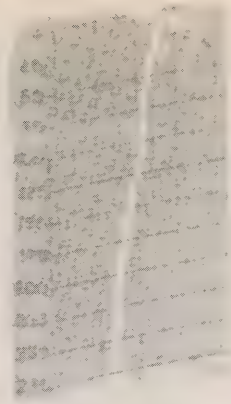
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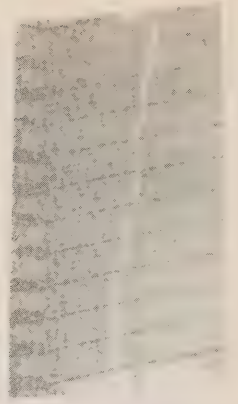
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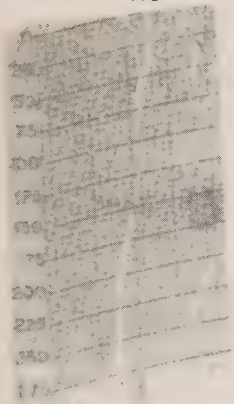
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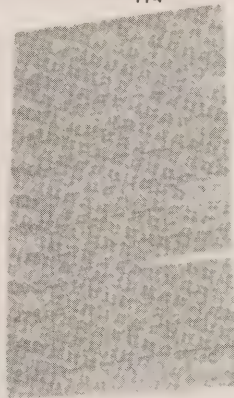
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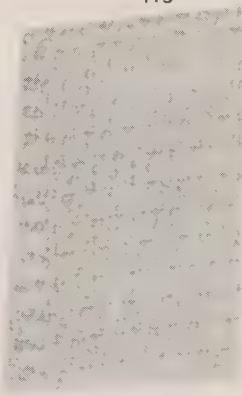
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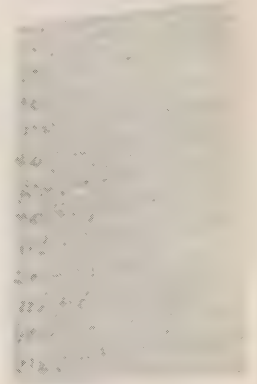
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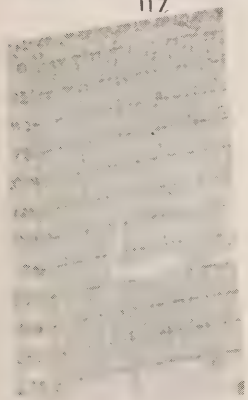
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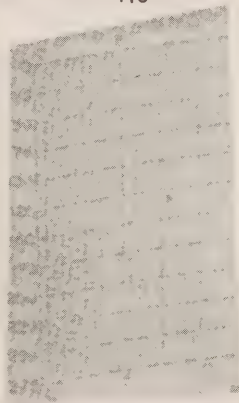
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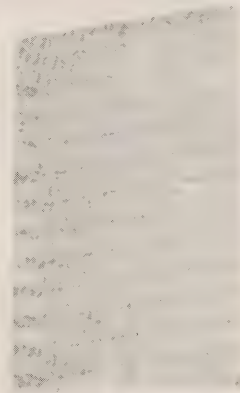
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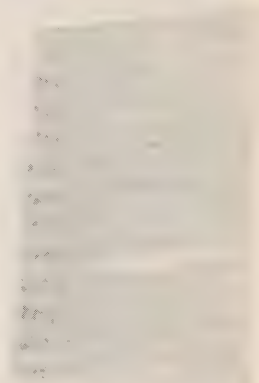
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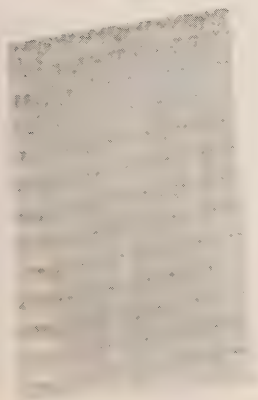
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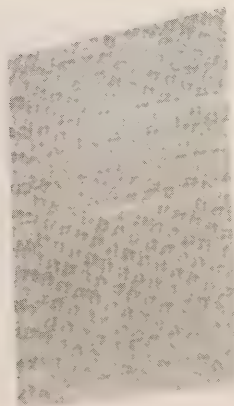
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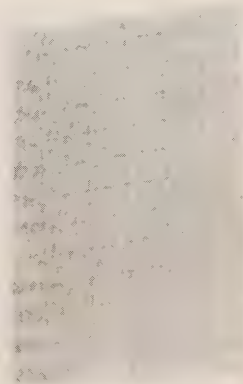
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129



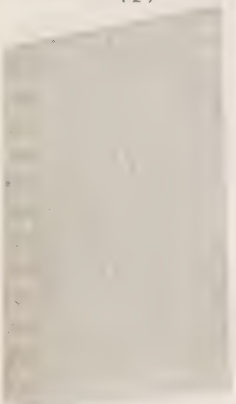
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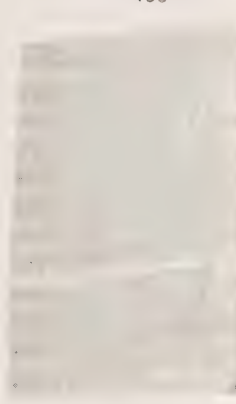
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132



133



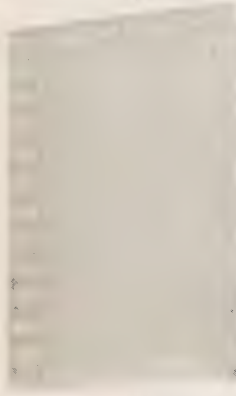
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140



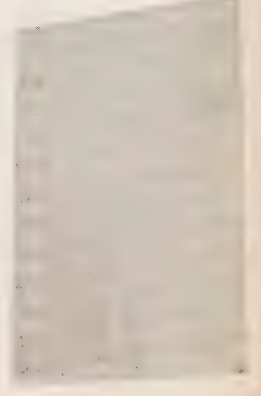
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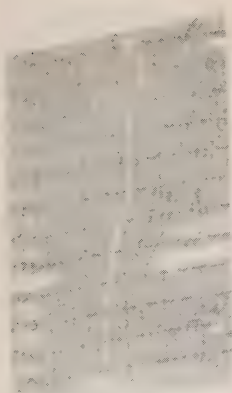
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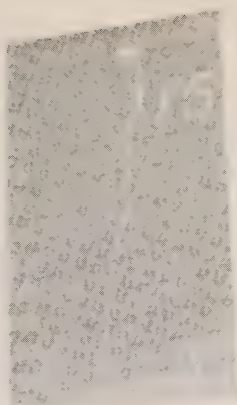
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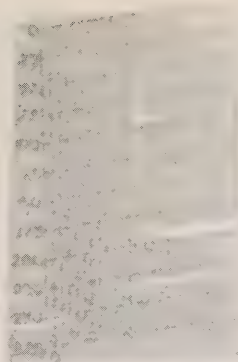
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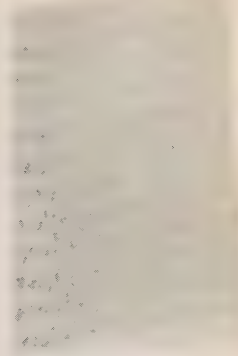
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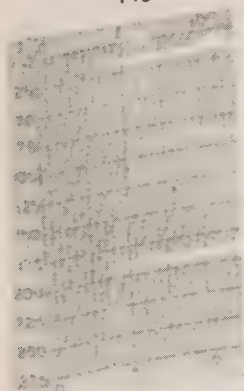
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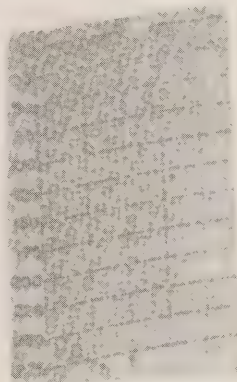
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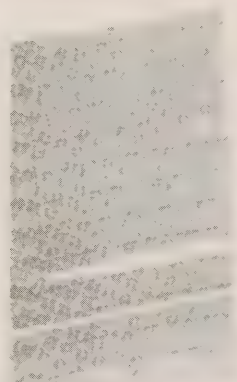
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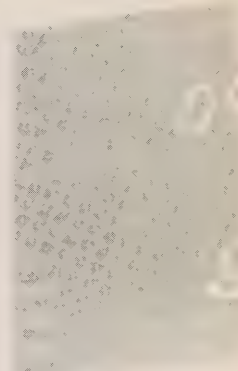
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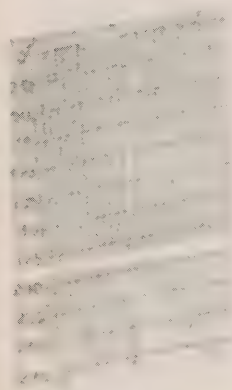
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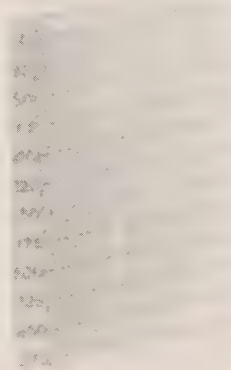
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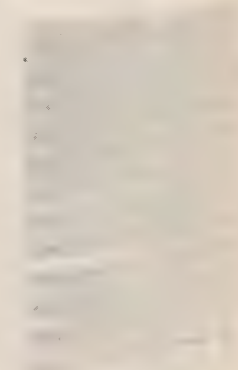
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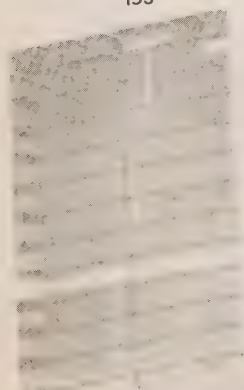
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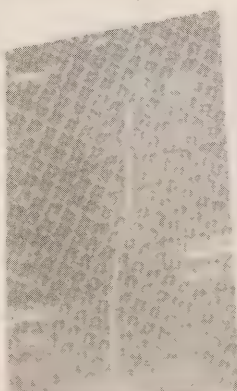
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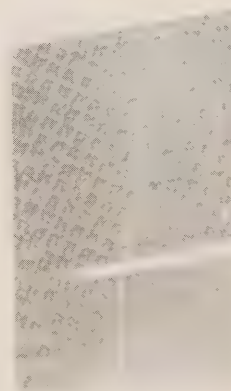
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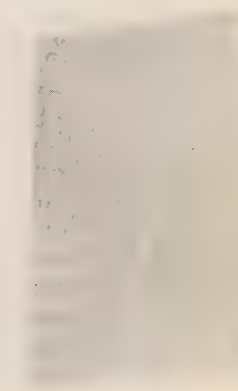
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160



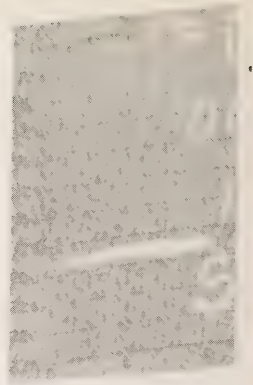
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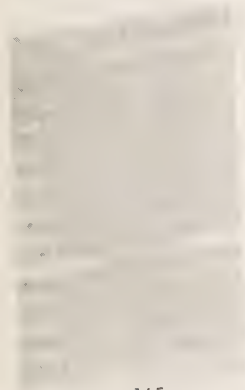
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164



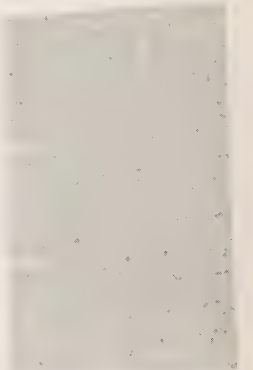
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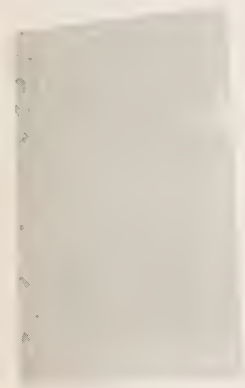
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168



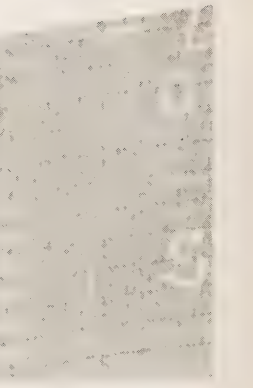
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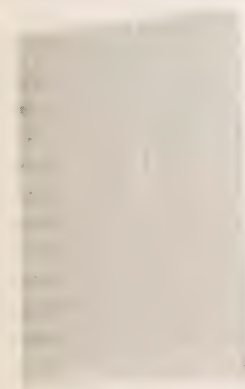
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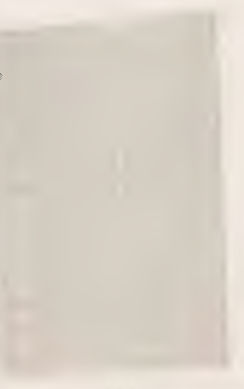
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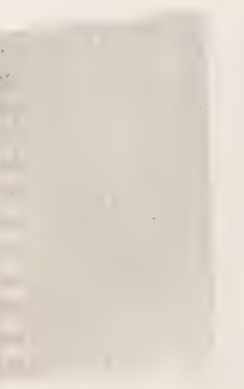
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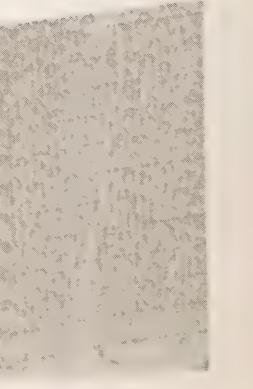
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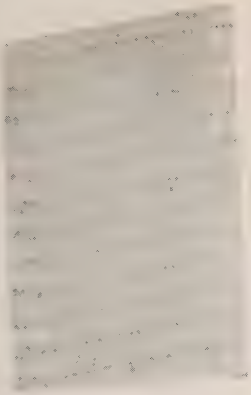
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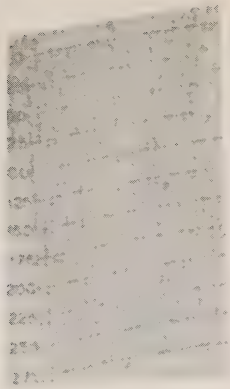
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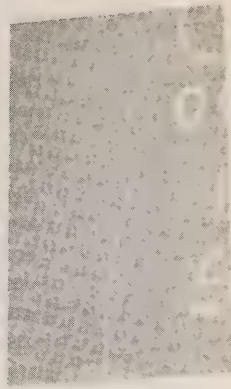
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177



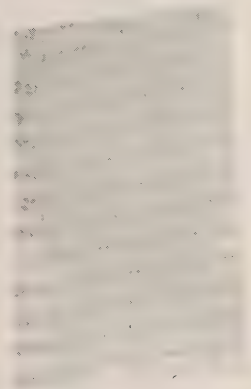
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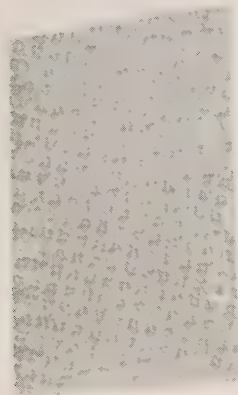
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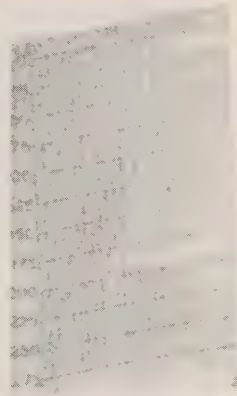
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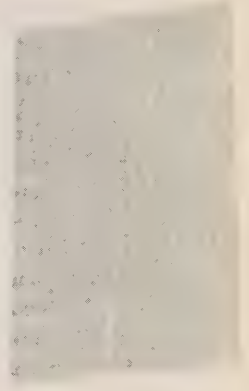
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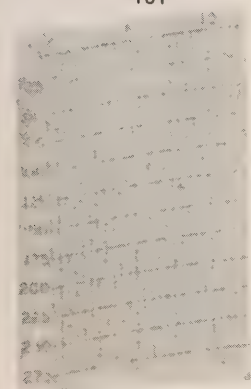
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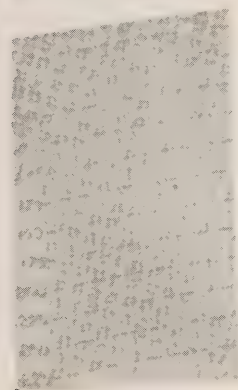
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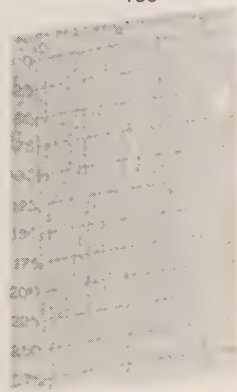
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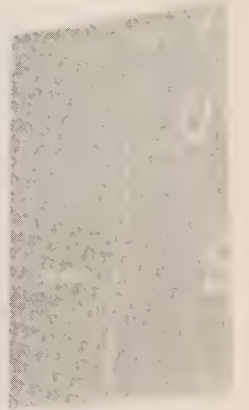
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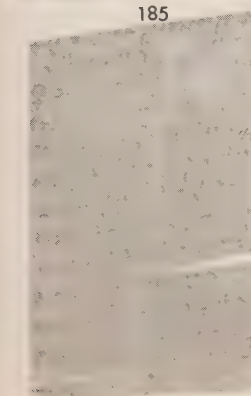
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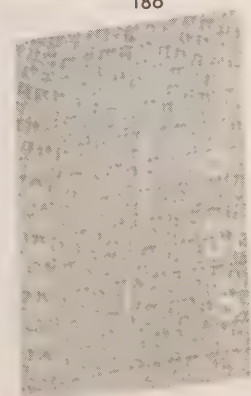
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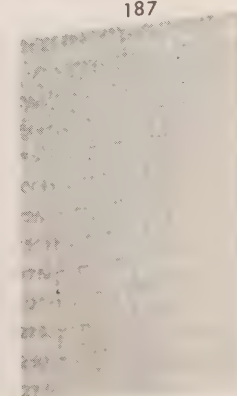
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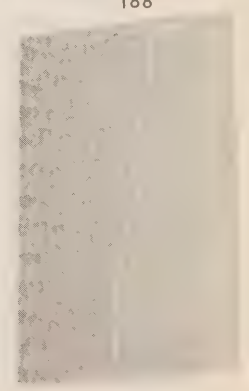
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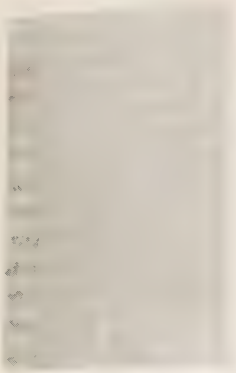
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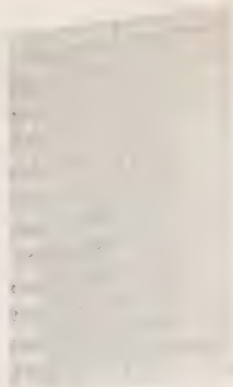
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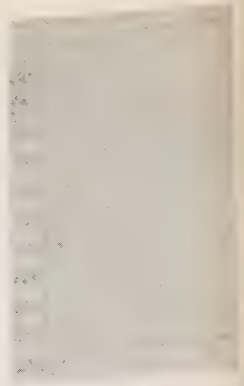
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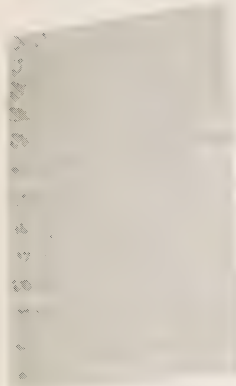
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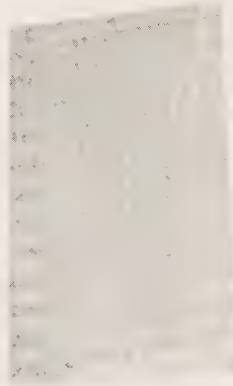
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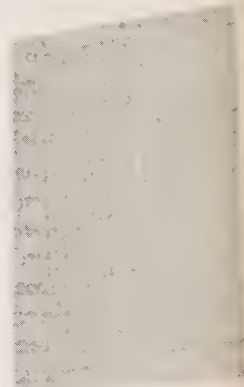
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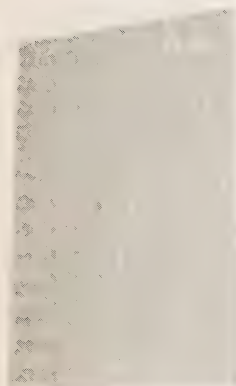
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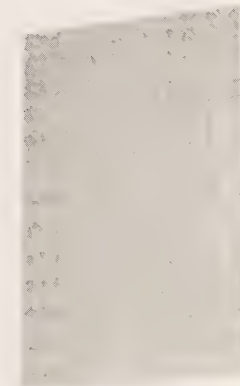
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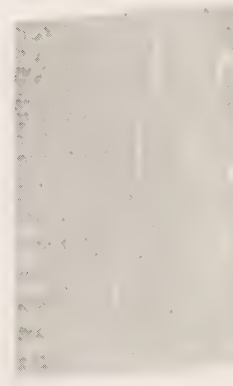
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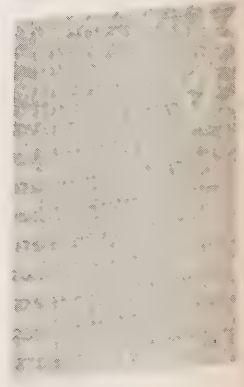
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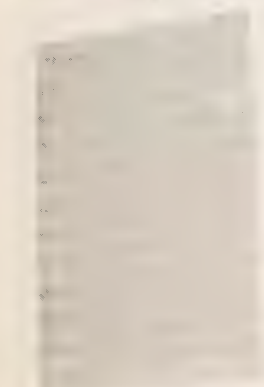
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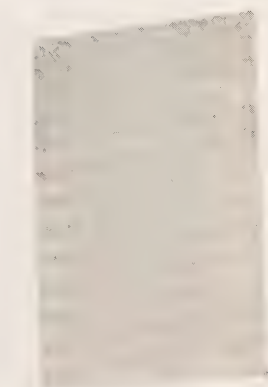
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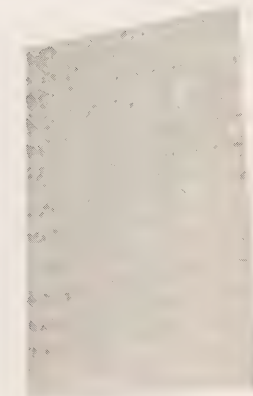
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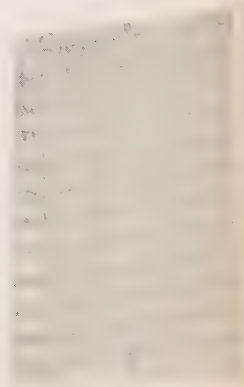
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207



208



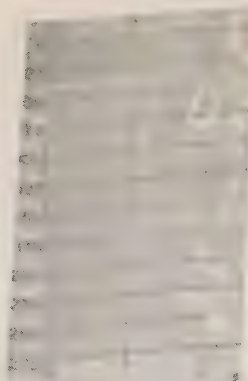
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210



211



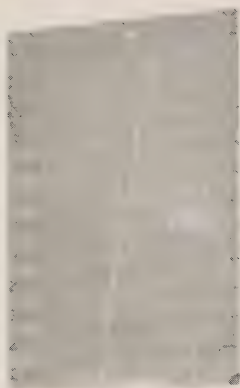
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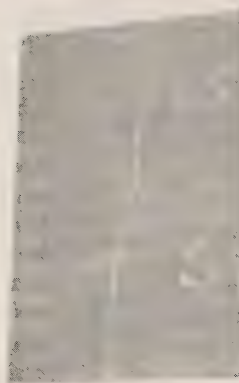
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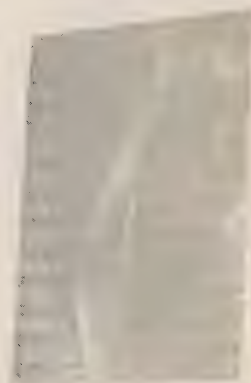
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215



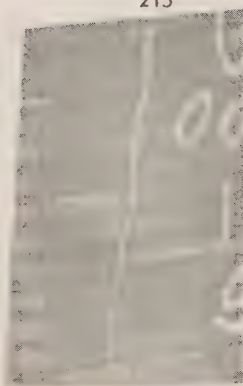
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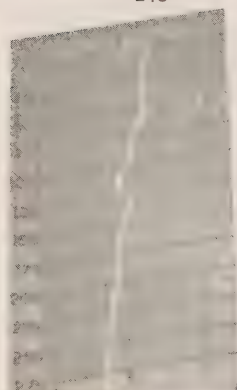
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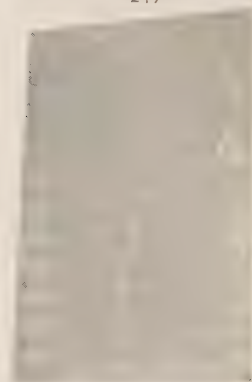
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219



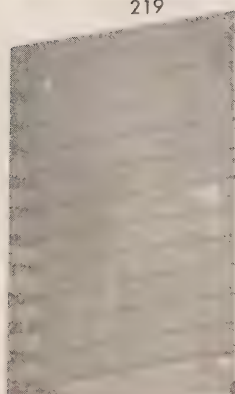
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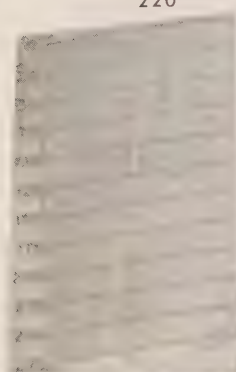
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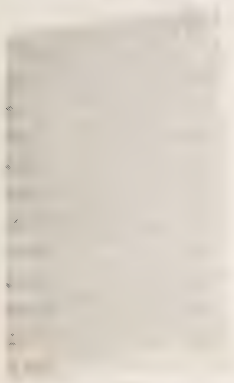
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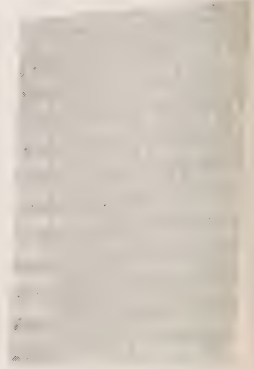
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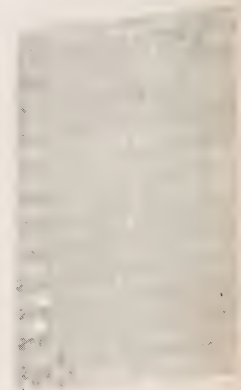
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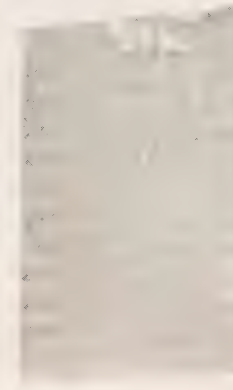
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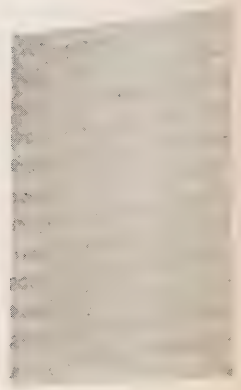
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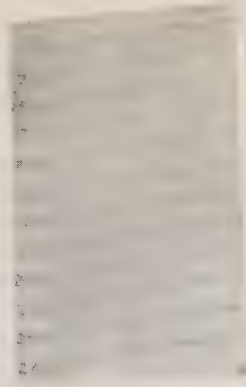
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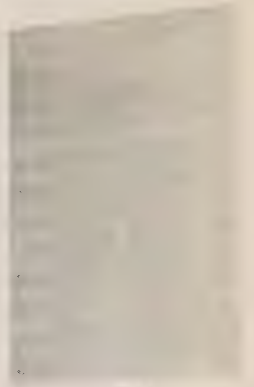
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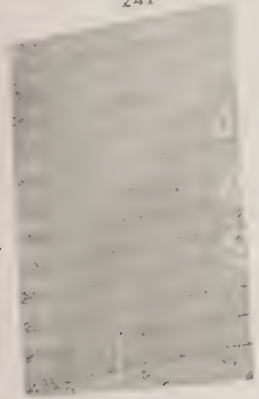
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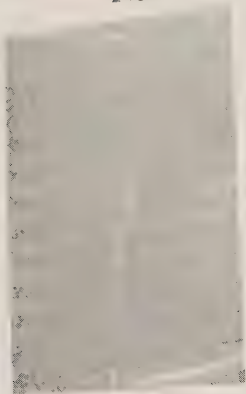
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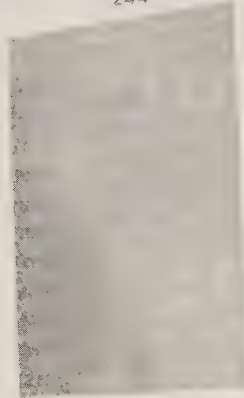
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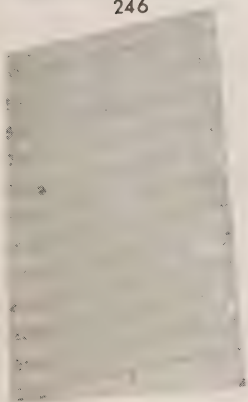
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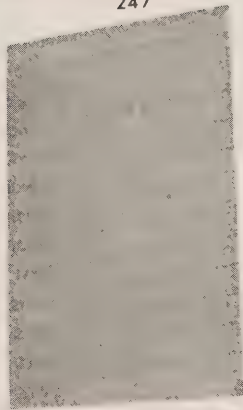
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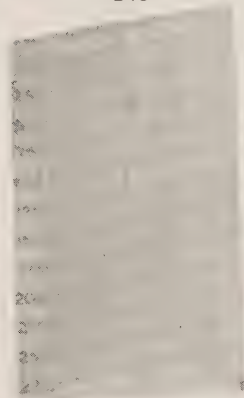
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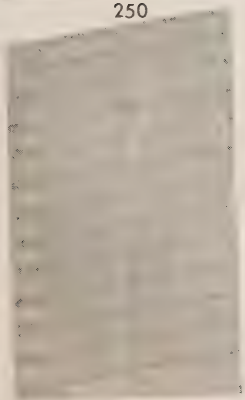
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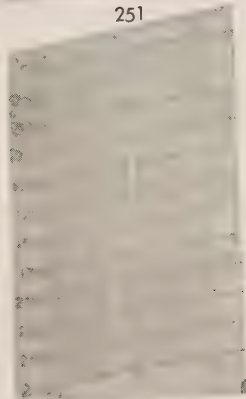
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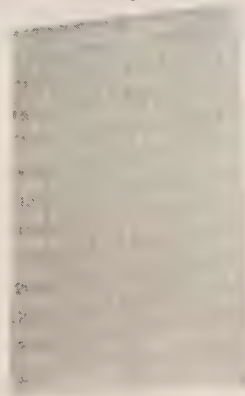
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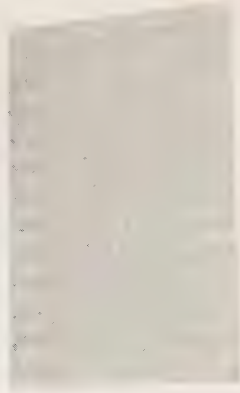
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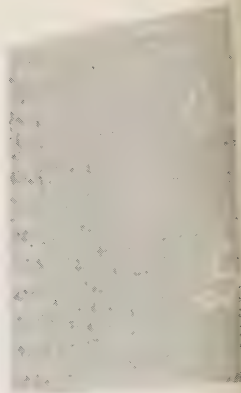
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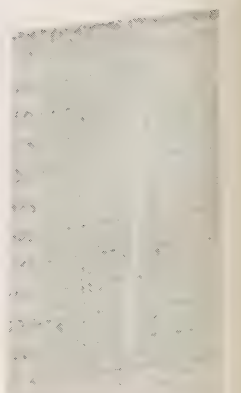
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SECTION V

Surface Salinity Data

Surface Salinity Observations

Date-Time	Position		Salinity
G. M. T.	Latitude	Longitude	‰
CCGS "St. Catharines", Survey P-66-1			
66-03-05-10.2	48°51'n	128°40'w	32.604
05-16.5	49°02'	130°40'	32.612
05-20.0	49°04'	131°40'	32.651
05-23.0	49°09'	132°40'	32.569
06-02.5	49°13'	133°40'	32.558
06-05.5	49°17'	134°40'	32.570
06-08.2	49°22'	135°40'	32.539
06-11.8	49°26'	136°40'	32.522
06-14.2	49°30'	137°40'	32.552
06-21.3	49°38'	139°40'	32.632
07-04.8	49°45'	141°40'	32.671
07-17.0	50°00'	143°54'	32.669
08-17.5	50°42'	146°08'	32.646
11-00.0	49°56'	144°53'	32.720
12-00.0	50°01'	144°56'	32.669
13-00.0	49°57'	144°56'	32.679
14-00.0	50°02'	144°59'	32.674
15-00.0	50°07'	144°56'	32.672
16-00.0	50°12'	145°07'	32.684
17-00.0	49°59'	145°04'	32.692
18-00.0	50°16'	144°52'	32.730
19-00.0	50°17'	145°35'	32.680
20-00.0	50°18'	145°45'	32.831
21-00.0	49°55'	144°53'	32.678
22-00.0	49°46'	145°11'	32.697
23-00.0	50°11'	145°14'	32.781
24-00.0	49°48'	145°27'	32.777
25-00.0	50°06'	145°04'	32.639
26-00.0	49°59'	144°52'	32.667
27-00.0	50°09'	145°06'	32.684
28-00.0	50°11'	144°50'	32.666
29-00.0	49°46'	145°10'	32.735
66-03-30-00.0	50°05'	144°52'	32.683
31-00.0	49°48'	144°57'	32.716
66-04-01-00.0	49°57'	145°07'	32.674
02-00.0	50°06'	144°53'	32.684
03-00.0	49°52'	145°11'	32.675
04-00.0	50°02'	145°00'	32.689
05-00.0	50°06'	145°01'	32.686
06-00.0	50°04'	145°06'	32.708
07-00.0	50°07'	145°08'	32.688
08-00.0	49°58'	145°09'	32.672
09-00.0	49°59'	145°06'	32.692

Surface Salinity Observations

Date-Time G. M. T.	Position		Salinity
	Latitude	Longitude	‰
CCGS "St. Catharines", Survey P-66-1			
66-04-10-00.0	49°54'n	145°11'w	32.704
13-00.0	50°02'	144°08'	32.705
14-00.0	50°00'	145°00'	32.692
15-00.0	49°56'	145°02'	32.684
16-00.0	50°01'	145°06'	32.740
17-00.0	50°07'	144°48'	32.685
18-00.0	50°03'	144°25'	32.546
18-02.8	49°57'	143°58'	32.676
18-16.5	49°45'	141°40'	32.669
18-23.2	49°38'	139°40'	32.653
19-05.7	49°30'	137°40'	32.633
19-13.6	49°22'	135°40'	32.547
19-19.3	49°15'	133°40'	32.562
20-01.8	49°05'	131°40'	32.631
20-08.8	48°53'	129°40'	32.568
20-22.8	48°38'	126°00'	31.259
20-23.8	48°33'	125°32'	31.095
CCGS "Stonetown", Patrol No. 69			
66-04-19-00.0	49°56'n	144°25'w	32.672
20-00.0	49°56'	145°02'	32.671
21-00.0	50°00'	145°00'	32.678
22-00.0	50°04'	144°57'	32.685
23-00.0	50°00'	144°58'	32.633
24-00.0	49°56'	144°56'	32.690
25-00.0	49°58'	144°56'	32.692
26-00.0	50°05'	145°05'	32.681
27-00.0	50°04'	144°46'	32.724
28-00.0	50°01'	145°03'	32.606
30-00.0	50°00'	144°56'	32.752
66-05-02-00.0	49°57'	145°06'	32.718
04-00.0	50°06'	145°00'	32.728
05-00.0	50°09'	144°57'	32.674
06-00.0	50°05'	145°00'	32.683
07-00.0	50°07'	144°58'	32.689
08-00.0	49°54'	145°05'	32.705
09-00.0	50°04'	144°54'	32.731
10-00.0	50°01'	144°55'	32.672
11-00.0	49°49'	144°58'	32.688
13-00.0	50°04'	145°08'	32.409
17-00.0	49°58'	144°45'	32.692
18-00.0	50°02'	144°59'	32.509

Surface Salinity Observations

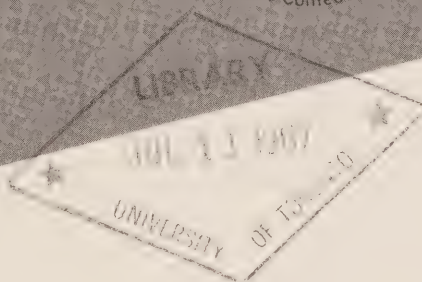
Date-Time	Position		Salinity
G. M. T.	Latitude	Longitude	$\frac{‰}{‰e}$
CCGS "Stonetown", Patrol No. 69			
66-05-19-00.0	50°02'n	145°00'w	32.662
22-00.0	50°09'	145°16'	32.712
24-00.0	50°02'	144°57'	32.749
25-00.0	49°57'	144°49'	32.713
26-00.0	49°59'	144°59'	32.721
27-00.0	50°02'	144°55'	32.733
29-00.0	50°02'	144°56'	32.702
30-00.0	49°58'	144°56'	32.705

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- Equation for the Speed of Sound in Seawater. Journ. Acoust. Soc., America 32 (10); p. 1357.



Government
Publications



ARCTIC 1961

August 2 to October 12, 1961

No. 12

1966 Data Record Series

Canadian Oceanographic Data Centre

Programmed by the
Canadian Committee on Oceanography

1966

ROGER DUHAMEL, F. R. S. C.
QUEEN'S PRINTER AND CONTROLLER OF STATIONERY
OTTAWA, 1966

Cat. No. M58-1/1966-12

Price \$1.00

ARCTIC 1961

August 2 to October 12, 1961

**CODC References: 341
344**

No. 12

1966 Data Record Series

**Canadian Oceanographic Data Centre
615 Booth St., Ottawa, Canada**

Programmed by the Canadian Committee on Oceanography

DEPARTMENT OF ENERGY, MINES AND RESOURCES

MARINE SCIENCES BRANCH

ARCTIC 1961

Ships:	CCGS "John A. MacDonald"	CCGS "Labrador"
Local Cruise designations:	344	341
Cruise periods:	August 22 - September 15, 1961	August 2 - October 12, 1961
Observers:	See Introduction Part 1	

CANADIAN HYDROGRAPHIC SERVICE, Ottawa, Ontario
DIVISION OF OCEANOGRAPHIC RESEARCH, Ottawa, Ontario

SECTION I

Description of data collection procedures

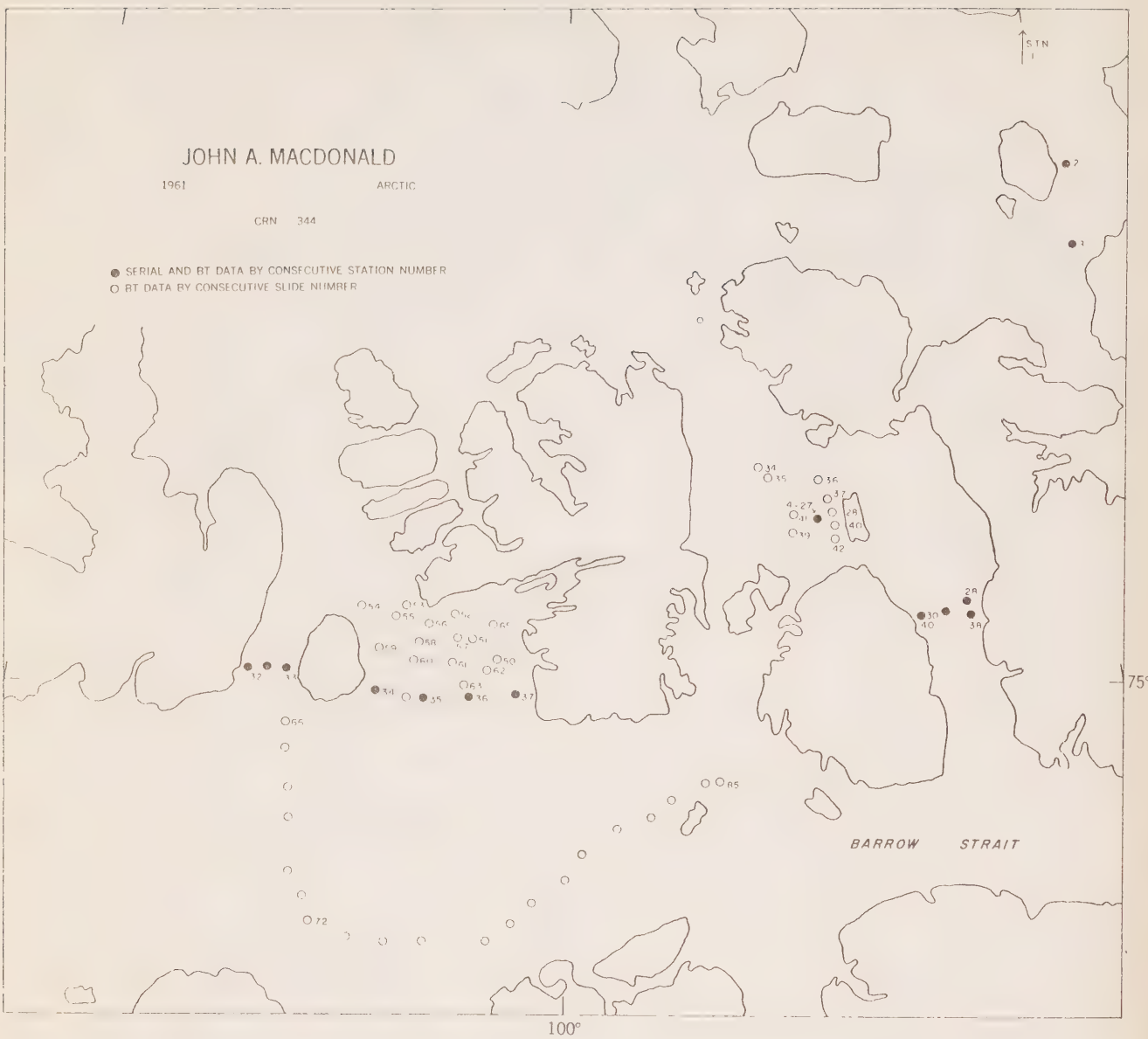


Figure 2a

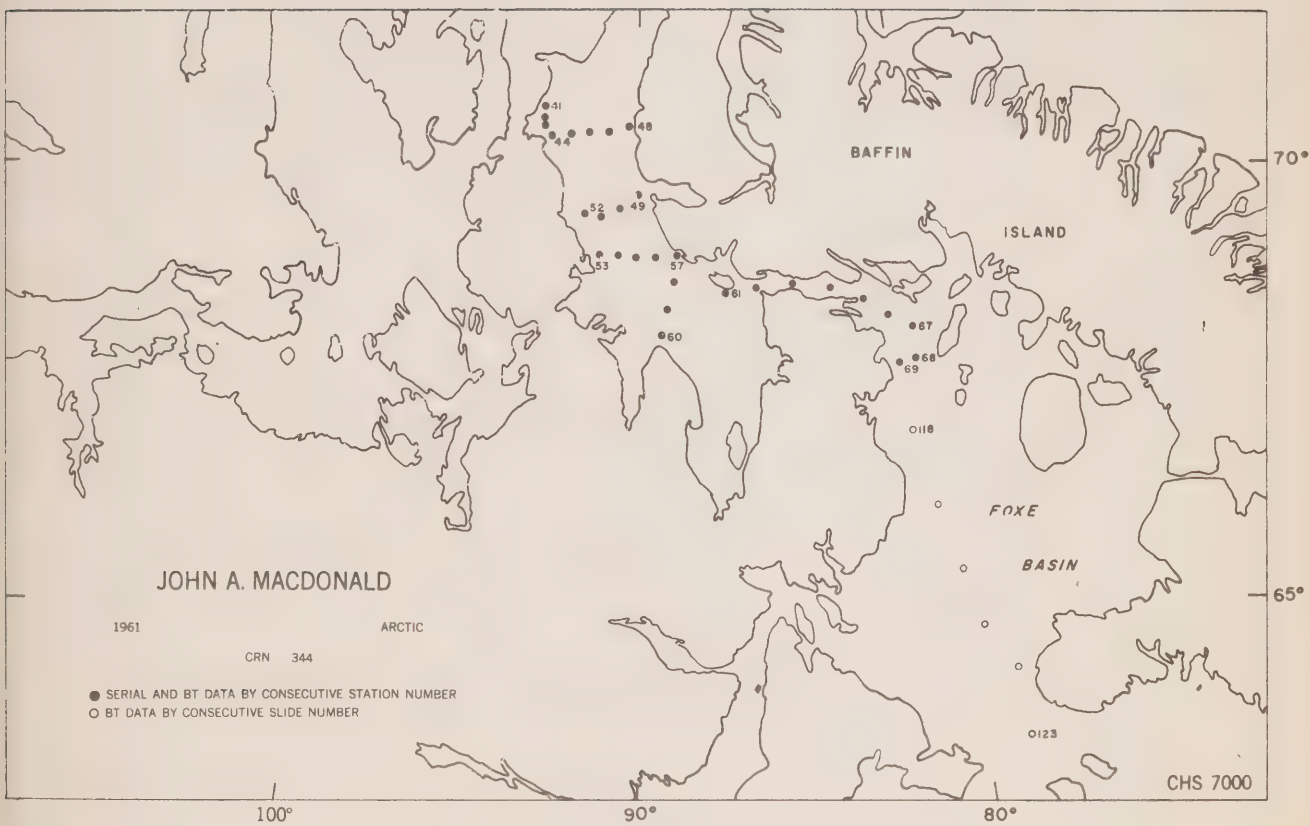


Figure 2b

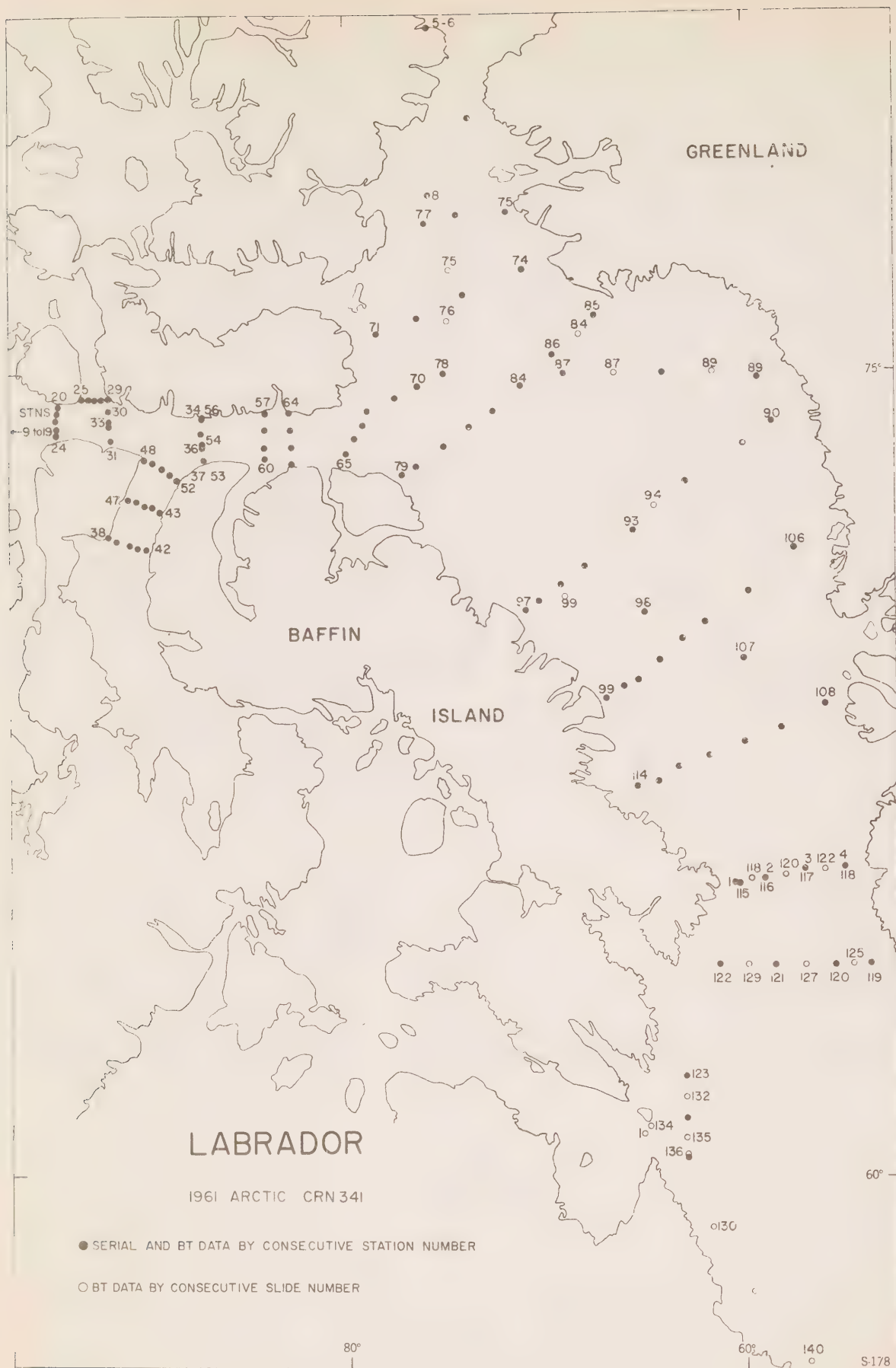


Figure 3a

M'CLURE STRAIT

● 11

●

●

○

● 9

● 10

● 16

● 17

LABRADOR

1961

ARCTIC

CRN 341



SERIAL AND BT DATA BY CONSECUTIVE NUMBER

74°

116°

114°

CHS 7091

Figure 3b

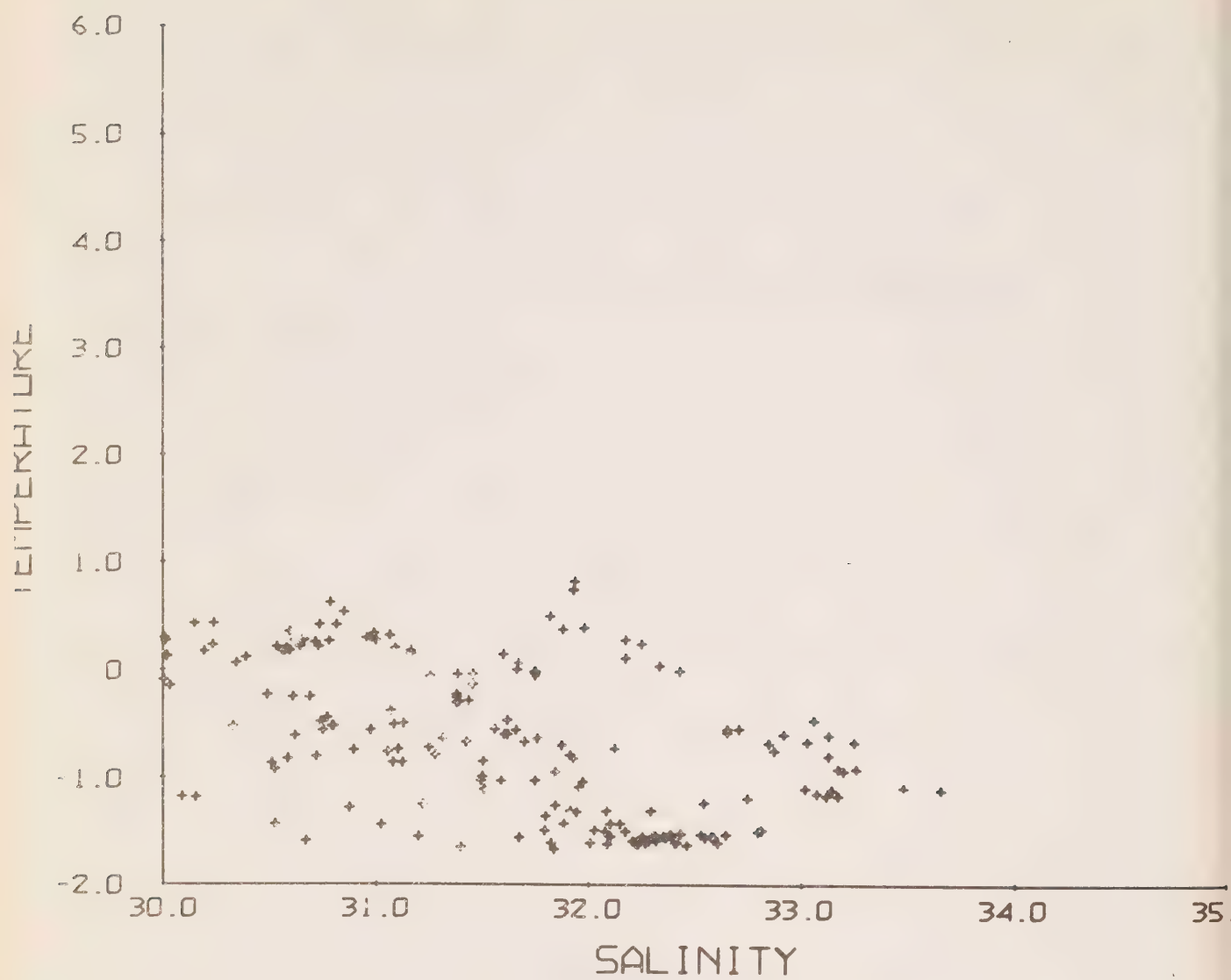


Figure 4a

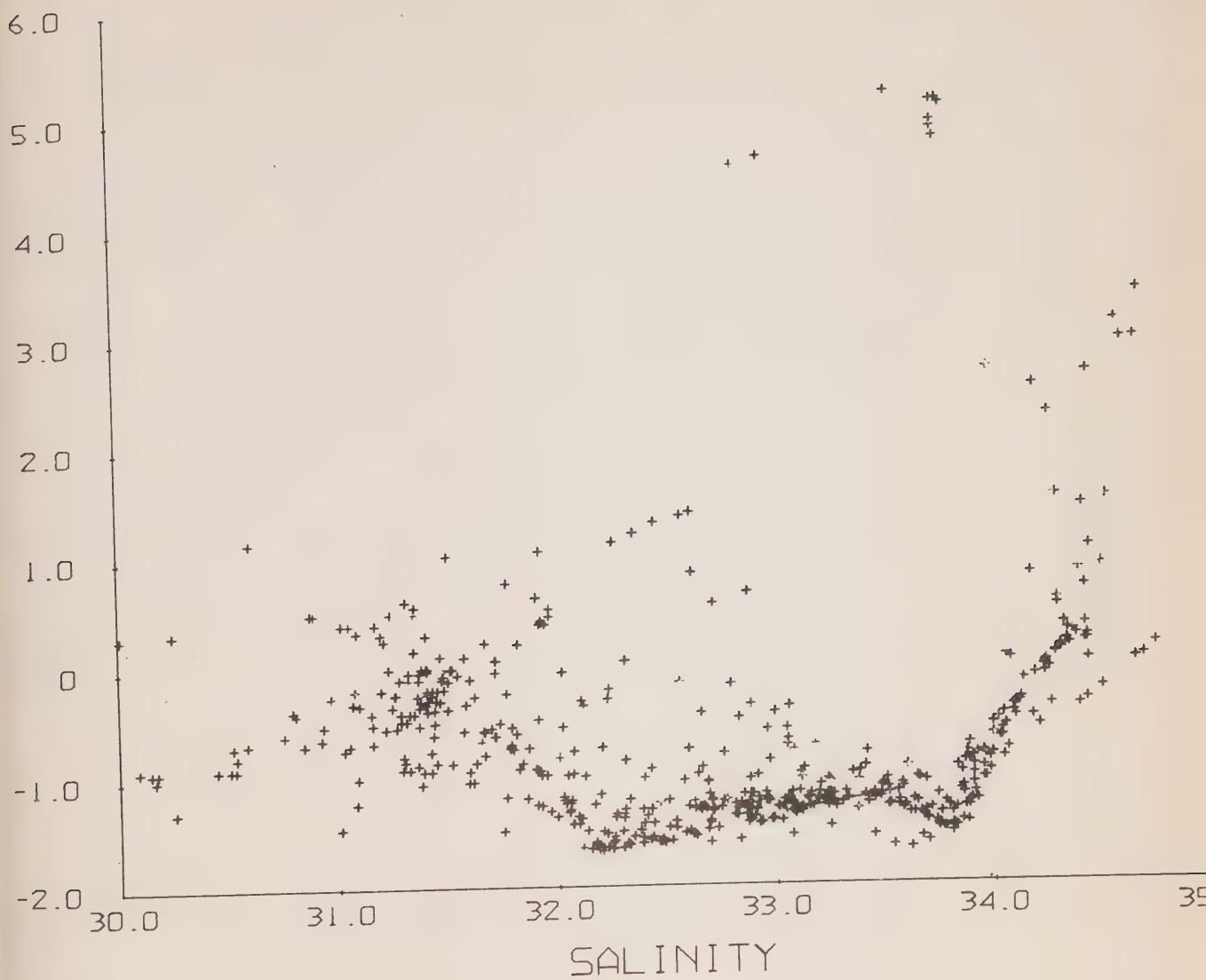


Figure 4b

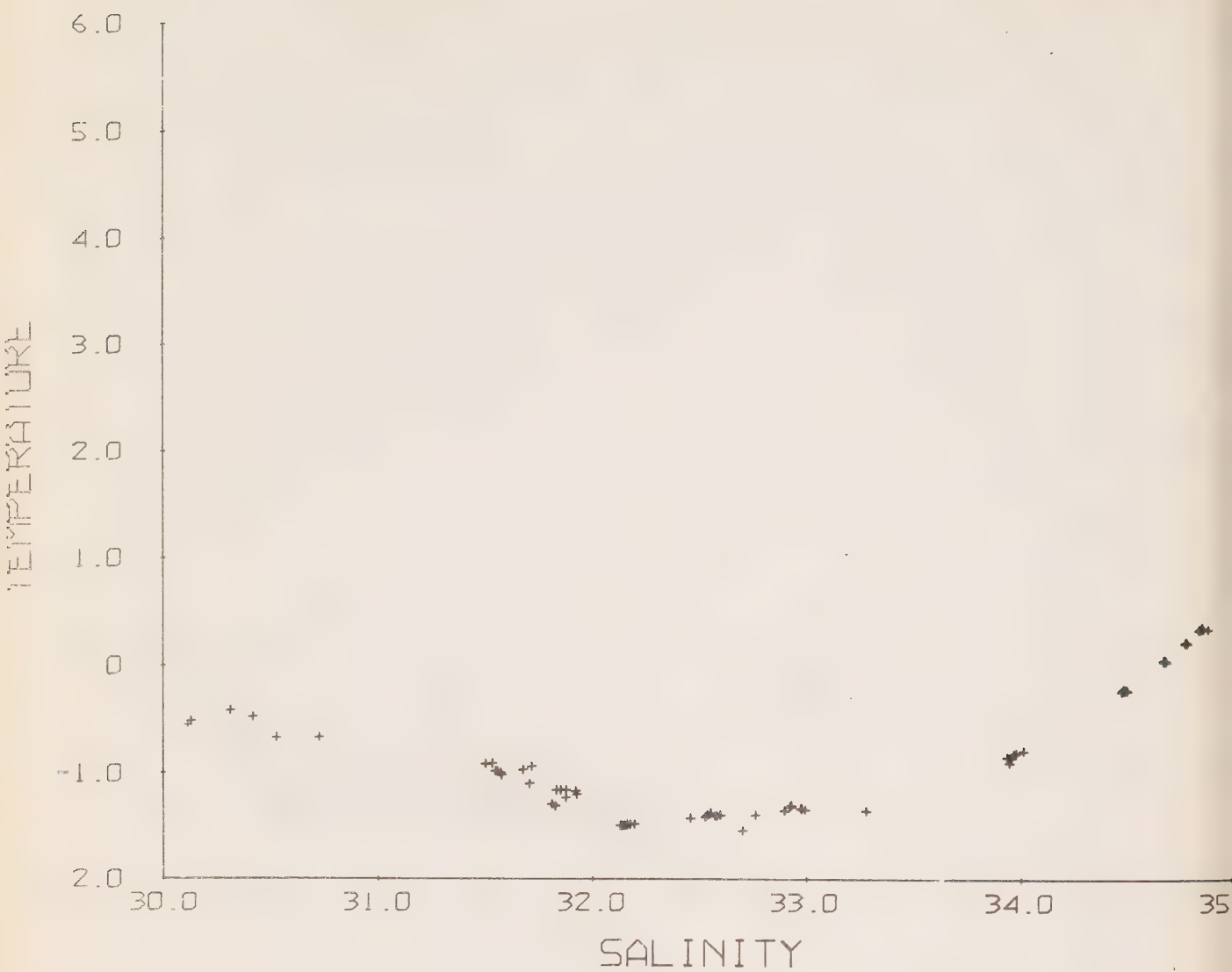


Figure 4c

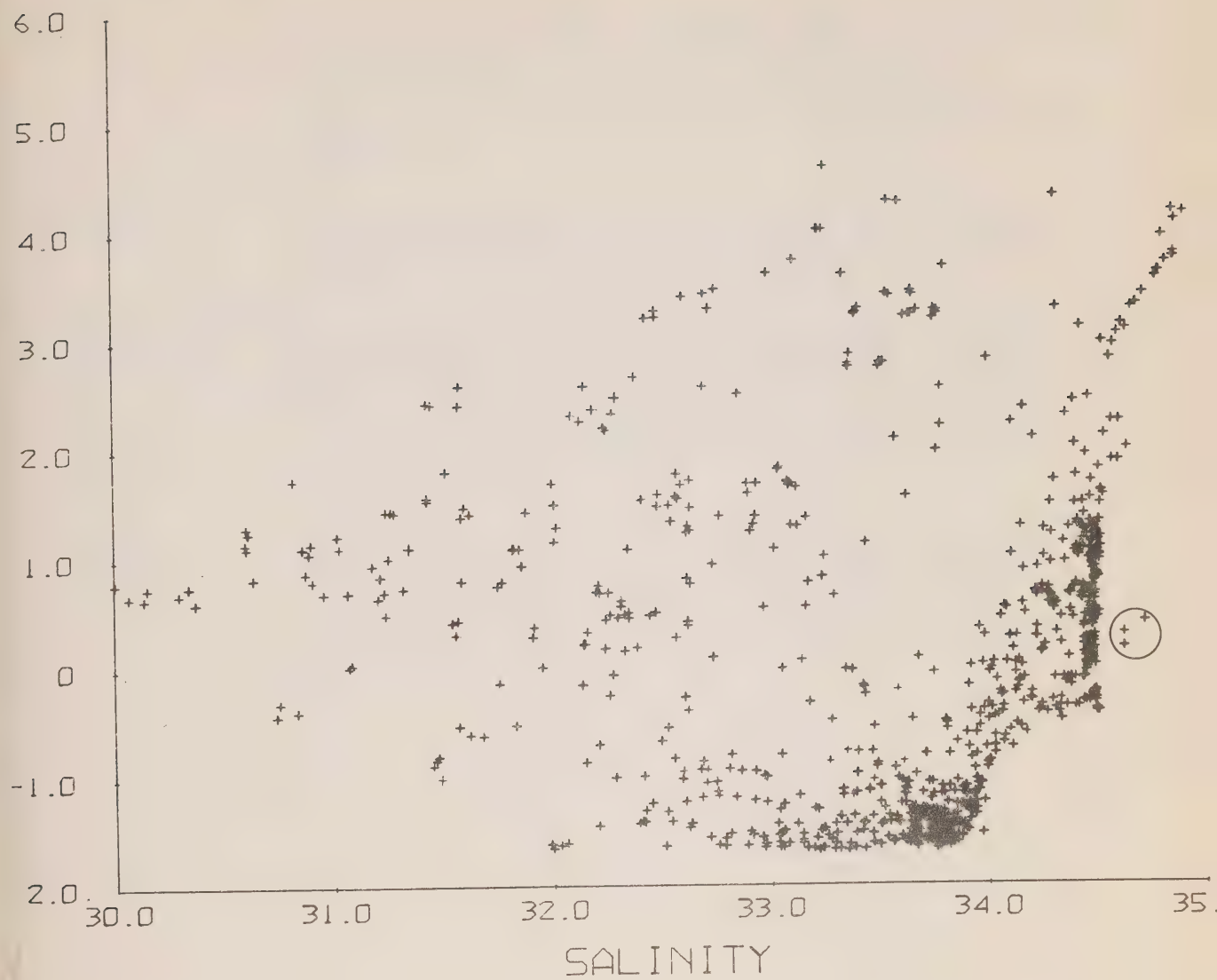


Figure 4d

LIST OF FIGURES

- Figure 1 The approximate position of stations occupied in northern waters during the 1961 season by DM&TS personnel in the ships "John A. MacDonald", "Labrador", and "Theta". The observations in Hudson Bay have been reported (Anon., 1964a;b).
- Figure 2 The approximate position for serial and BT data occupied by the "John A. MacDonald". (a) Consecutive station numbers 1 to 40. (b) Consecutive station numbers 41 to 69.
- Figure 3 The approximate position for serial and BT data occupied by the "Labrador". (a) Consecutive station numbers 1 to 8 and 20 to 125. (b) Consecutive numbers 9 to 17. The position of stations 18 and 19 between M'Clure Strait and Barrow Strait is not shown.
- Figure 4 The temperature-salinity relation of the serial data in the range 30 to 35⁰/oo. (a) "John A. MacDonald" stations 38 to 69. (b) "Labrador" stations 1 to 8 and 18 to 64. (c) "Labrador" stations 9 to 17. (d) "Labrador" stations 65 to 125.

JOHN A MACDONALD



Dept. of Transport

"LABRADOR"



Canadian Coast Guard Service

INTRODUCTION

During the navigation season of 1961 the icebreakers CCGS "John A. MacDonald" and CCGS "Labrador" were made available for oceanographic survey in the Arctic. This was the first major operation in the Arctic for the "John A. MacDonald" and the first occasion that oceanographic work was conducted in the vessel. A survey programme was planned for that season in the "John A. MacDonald" by the Canadian Hydrographic Service, and it was personnel of this service who carried out the oceanographic observations. The "Labrador" had been utilized frequently for oceanographic survey in the Arctic, the previous occasion being that of the 1960 season (Anon., 1964 c). The general extent of the oceanographic observations during the 1961 season carried out in northern waters by personnel of the Department of Mines and Technical Surveys is shown in Figure 1.

The data record comprises serial temperature, salinity, and dissolved oxygen data as well as bathythermograms. It may be noted that the record is subject to modification and possible correction at a later date. The usual errors including blunders are known to exist in the observed material, but, except as indicated, no attempt has been made to interpret or adjust values. The original data are on file with the Marine Sciences Branch, Ottawa.

Information concerning ice conditions as observed from the air and from shipboard during the 1961 season is available in reports of Archibald et al. (1962 a;b;c) and Dunbar (1962).

The data were prepared for publication by B. Kelly and J. Zebarth.

THE "JOHN A. MACDONALD" PROGRAMME

The positions at which stations were occupied and at which bathythermograph lowerings were made are indicated in Figure 2. Table 1 is a listing which relates consecutive station number and consecutive slide number and Table 3 is a listing of data pertaining to the bathythermograms.

Serial data were obtained at standard depths. Each tabulated temperature value is the average of one reading of the two Negretti and Zambra reversing thermometers on each bottle. Salinity samples were drawn into glass bottles with patent stoppers fitted with rubber washers. At stations prior to consecutive number 38 the storage bottles had not been properly sealed, so that the determinations are not indicated here.

Personnel included H. Blandford, A. Kerr, R. MacKay, and J. Clarkson.

THE "LABRADOR" PROGRAMME

The positions of the stations occupied and bathythermograms obtained in "Labrador" are shown in Figure 3 and in Table 2 is a listing of consecutive station number and consecutive slide number. The observations in McClure Strait were carried out in conjunction with acoustic studies of the Pacific Naval Laboratory (Holler et al., 1962; Milne, 1963), and in Baffin Bay certain stations were occupied as requested by the United States Naval Oceanographic Office.

At each station serial data were observed at standard depths using Knudsen type reversing bottles each of which was fitted with two protected thermometers and some with an unprotected thermometer (both Richter & Wiese and Yoshino instruments were available). If more than one cast was required the deeper one was made first followed by the shallow cast, a bathythermograph lowering, and at some stations two vertical plankton tows. The latter were made, one from the top of the thermocline, the other from 150m, with a Hensen type net with an opening of 70 cm. At some positions bathythermograph lowerings only were made. The time and position of each as well as other pertinent data are shown in Table 4.

The tabulated depths were obtained through readings of rope angle and meter block, and thermometric data. Thermometers were read twice independently, the tabulated values are the means of two readings of the two thermometers at each depth. Samples for dissolved oxygen determination were usually drawn at those stations where the plankton tows were made, the determination being carried out immediately using a modified Winkler procedure. Samples for the determination of salinity were drawn into glass storage bottles with patent stoppers fitted with rubber washers. At some stations samples for microplankton were drawn from the reversing bottles.

Salinity samples were stored in the ship for return to shore-based laboratory (Ottawa) where the determinations were made using a conductivity salinometer (Cox, 1961) with an extended range bridge. Plankton samples were returned to the Arctic Biological Station; a portion of these data have been described by Grainger (1963).

Personnel comprised A.M. Holler, J.A. Coombs, C.J. Glennie and R.J. Acheson.

BATHYTHERMOGRAPH DATA

The bathythermograph data presented here in Section IV were reproduced from aperture cards (Sauer, 1964) which in turn has been made from photographs of the BT slides; the slides were not available. The aperture cards were processed through a reader printer unit (Trade name: 3m Reader Printer model 400) at the Canadian Oceanographic Data Centre. The output of photo positives (approx. 5" X 8") was then cropped and affixed to Xerox masters after the BT traces had been highlighted and the serial temperature inked in.

With regard to the "John A. MacDonald" data a comparison of the serial and BT temperature for each station has indicated that a number of the photographic reproductions of the original slides contain errors. This resulted apparently from an improper alignment of the slide and grid which caused both systematic and skewed differences. The latter effect is most apparent in those data obtained with the deep unit and to the extent that all indicate the existence of this error.

In the presentation here the consecutive slide number has been typed on each bathythermogram. The number relates each bathythermogram to the appropriate consecutive station number of Tables 1 and 2 and to the detailed information concerning the BT data of Tables 3 and 4.

TEMPERATURE - SALINITY

The temperature-salinity relationship of the serial data in the range 30 to 35/00 is shown in Figure 4. This is the direct reproduction of the output from a machine plotter, only the circling of the three points in Figure 4d was drawn in later. The three values were observed at station 79 and appear to have resulted from an error in the salinity sampling procedure; the tabulated depths and temperatures are likely acceptable.

Table 1 A listing of the "John A. MacDonald" data relating the consecutive numbers of stations and bathythermograph slides.

<u>Consecutive</u> Station	<u>No.</u> Slide	<u>Consecutive</u> Station	<u>No.</u> Slide	<u>Consecutive</u> Station	<u>No.</u> Slide
1	1		42		83
2	2	31	43		84
3	3	32	44		85
*4	4	33	45	38	86
	5	34	46	39	87
5	6	35	47	40	88
6	7	36	48	41	89
7	8	37	49	42	90
8	9		50	43	91
9	10		51	44	92
10	11		52	45	93
11	12		53	46	94
12	13		54	47	95
13	14		55	48	96
14	15		56	49	97
15	16		57	50	98
16	17		58	51	99
17	18		59	52	100
	19		60	53	101
18	20		61	54	102
19	21		62	55	103
20	22		63	56	104
21	23		64	57	105
22	24		65	58	106
23	25		66	59	107
24	26		67	60	108
25	27		68	61	109
26	28		69	62	110
27	29		70	63	111
28	30		71	64	112
29	31		72	65	113
30	32		73	66	114
	33		74	67	115
	34		75	68	116
	35		76	69	117
	36		77		118
	37		78		119
	38		79		120
	39		80		121
	40		81		122
	41		82		123

* Consecutive station numbers 4 to 27 were occupied at one position during a period the vessel was anchored.

Table 2 A listing of "Labrador" data relating the consecutive numbers of stations and bathythermograph slides.

Consecutive Station	No. Slide	Consecutive Station	No. Slide	Consecutive Station	No. Slide
				91	92
	1	47	46	92	93
1	2	48			94
2	3	49		93	
3	4	50	47	94	95
4	5	51	48	95	96
5	6	52	*49	96	97
6	7	53	50	97	98
7	8	54	51		99
8	9	55	52	98	100
9	10	56	53	99	101
10	11	57	54	100	102
11	12	58	55	101	103
12			56	102	104
13		59	57	103	105
14	13	60	58	104	106
15	14	61	59	105	107
16	15	62	60	106	108
17	16	63	61	107	109
18	17	64	62	108	110
19	18	65		109	111
20	19	66	63	110	112
21	20	67	64	111	113
22	21	68	65	112	114
	22	69	66	113	115
23	23	70	67		
24	24	71	68	114	116
25	25	72	69	115	117
26	26	73	70		118
27	27	74	71	116	*119
28	28	75	72		120
29	29	76	73	117	121
30	30	77	74		122
31	31		75	118	123
32	32		76	119	124
33	33	78	77		125
34	34	79	78	120	126
35	35	80	79		127
36	36	81	80	121	128
37	37	82	81		129
38	38	83	82	122	130
39	39	84		123	131
40	40	85	83		132
41	41		84	124	133
42	42	86	85		134
43	43	87	86		135
44	44		87		136
45		88	88	125	137
46	45		89		138
		89	90		139
		90	91		140

* indicates BT data not available.

SECTION 11

Description of the machine-generated data record

INTRODUCTION

This section applies to the machine processing phase of the data reduction and computation.

The oceanographic data previously recorded on CODC data summary forms, a sample of which is shown on the next page, are transferred to punch-cards for subsequent electronic data processing on an IBM 1620 computer, using CODC's OCEANS II program. In addition to computing routine derived quantities, the program carries out unit and format conversions, range checks, plausibility tests, internal editing, and if required, interpolation at standard oceanographic depths. When interpolations are carried out, additional derived values are computed.

After the data have been processed, the data record is prepared using an IBM 1401 computer configuration with the OCEAN REPORT III program, which provides for pre-edited high speed print-out on continuous direct-image masters. These masters subsequently yield the required volume of copies for distribution.

Provision has been made to enter an "**estimate of precision**" for each observed variable selected for interpolation at standard oceanographic depths. The precision depends on the instrument and/or technique used to determine the variable. A standard precision stated as a **standard deviation** (σ) can be determined for each instrument or technique under routine field conditions by making duplicate determinations of the variables for a homogeneous sample of sea water. These standard deviations are given for each cruise under "GENERAL INFORMATION" in section III of the data record.

The **measurement error estimate** of a specific observation in this data record, is stated as a multiple of the standard deviation derived as above, and entered in a column immediately to the right of the reported variable. In order to distinguish it from an additional decimal digit, the measurement error estimate is recorded alphabetically, (i.e., $1\sigma = A$, $2\sigma = B$, etc.; in this data record "A" is suppressed).

An option is provided with respect to the measurement of the salinity variable. If observed to three decimal digits, the last digit takes the place of the measurement error estimate.

In the past, a number of methods for both manual and machine interpolation have been developed. Studies and comparisons of the several methods have shown that no single method is universally acceptable. The manual methods are the most elaborate and flexible, but often require subjective decisions. In machine interpolation, all the present methods fail to yield acceptable results under some circumstances. Hence, it is considered necessary to qualify interpolated values by stating an "**interpolation error estimate**" derived from the particular interpolation formula used. There are two purposes in stating the error estimates; **first**, to give an indication of the quality of the interpolated data; **second**, to allow the oceanographer to redesign his observational procedures in order to reduce interpolation errors in future observations.

The interpolation scheme chosen for the OCEANS II program consists of a combination of two 3-point interpolations using the Lagrangian interpolation polynomial, as recommended by Rattray (1962). A parabola is fitted through three values of a given variable (T , S , O_2) considered as a function of depth. The two interpolation parabolas require a total of four points (observed depths). The middle points are common to both parabolas. The average of the two values obtained from the parabolas at standard depth is taken as the interpolated value, and a function of their difference as an estimate of the interpolation error.

This function combined with the "**measurement error estimate**" comprises the "**combined measurement and interpolation error estimate**". It is expressed as a multiple of the standard deviation of measurement (σ) under normal routine field conditions by:

CANALIN C. ANOGRAPHIC DATA CENTRE

1 IDENT. CODE		2 LATITUDE (N=+)		3 LONGITUDE (W=+)		5 DATE		6 TIME		7 DEPTH		9 NO. DEPTHS OBS'D.		VESSEL																														
COUNTRY INST.		DEG ° MIN. 1 10		DEG ° MIN. 1 10		YEAR MONTH DAY		HOURS G.M.T. 1 10		TO BOTTOM		OBS'D.		ENTERED BY																														
1 8		1 8		1 8		1 8		1 8		1 8		1 8		1 8																														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24																					
10	WATER		WAVES I		WAVES II		WIND		BAROMETER		AIR TEMP.		WET BULB		W.W. CODE		CLOUD TYPE		HOURS AFTER H.W.		UNASSIGNED		CRUISE REFERENCE NUMBER		CONSEC. NUMBER																			
COLOUR TRANS.	Dw Dp Pw Hw		Dw Dp Pw Hw		Dw Dp Pw Hw		DIR.		FORCE		1 10		1 10		(SEPT. 62)		1 10		1 10		1 10		1 10		1 10																			
36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
6 TIME		7 DEPTH OF SAMPLE		8 TEMPERATURE		9 SALINITY		10 OXYGEN		13 PO ₄ - P		14 TOTAL - P		15 NO ₂ - N		16 NO ₃ - N		17 SiO ₂ - Si		18 P.H.		CAPT TYPE																						
HOURS G.M.T. 1 10		e		e		d/e		e		e		e		e		e		e		e		3																						
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	1																										

$$\frac{\sigma_i}{\sigma} = \left\{ \frac{(\Delta V_i)^2}{\sigma^2} + \sum_{n=j-2}^{j+1} (\gamma_n)^2 \left(\frac{\sigma_n}{\sigma} \right)^2 \right\}^{1/2}, \text{ where}$$

σ = Standard deviation of the combined error estimates at standard oceanographic depth,

ΔV_i = the interpolation error estimate of variable "V" at standard oceanographic depth = $1/3 (\bar{V}_{i_1} - V_{i_2})$

γ = Interpolation polynomial coefficient.

Z_j = Observed depth.

Z_i = Standard oceanographic depth, such that: $Z_{j-2} < Z_{j-1} < Z_i < Z_j < Z_{j+1}$

The integral part of the fraction $\frac{\sigma_i}{\sigma}$, if ≥ 2 , is reported in this Data Record following the interpolated variable. It represents the combined measurement and interpolation error estimate. In order to distinguish it from an additional decimal digit, it is recorded alphabetically (e.g.: 2 as "B", 3 as "C", etc.).

With respect to the interpolated value of the salinity variable if reported to three decimal digits, the interpolation error estimate is given only when $\frac{\sigma_i}{\sigma} \geq 2$ (the salinity is then recorded to two decimal places). If less than 2, the mean obtained from the two interpolation parabolas is reported to three decimal places.

EXPLANATION OF DATA RECORD HEADINGS

MASTER HEADINGS

(1) C-REF-NO	(6) YR	(11) DEPTH	(16) WAVES 1	(21) AIR T	(26) VIS
(2) CONS. NO	(7) MONTH	(12) MXSAMPD	(17) WAVES 2	(22) WET B	(27) STN
(3) LAT	(8) DAY	(13) NO. DPTH	(18) WND-DIR	(23) WW-CODE	
(4) LON	(9) HR	(14) W-COLOR	(19) WND-FCE	(24) CLD-TPE	
(5) MARSD SQ	(10) C/I	(15) W-TRNSP	(20) BARO	(25) CLD-AMT	(28) HW

(1) CRUISE REFER-
ENCE NUMBER:

Assigned by the Institute. Commences with 001 at the beginning of each year (effective Jan. 1, 1963). Prior to that date the CRN was a number designated by CODC.

(2) CONSECUTIVE
NUMBER:

Indicates the chronological order in which the stations were occupied.

(3) LATITUDE:

Indicate the position of the platform at the time of observation.

(4) LONGITUDE:

(5) MARSDEN SQUARE: Designates the geographic area code of the observation (see Marsden square chart).

(6) YEAR:

(7) MONTH:

(8) DAY:

(9) HOUR:

The time (Greenwich Mean Time) at which the surface environmental data were recorded. It is reported to tenths of hours (Table 1).
If an "X" precedes the value for HOUR, (prior to Jan. 1, 1963) it indicates that the reported time is doubtful.

(10) COUNTRY/
INSTITUTE:

The International Geophysical Year (IGY) Country Code/Institute Code - see Table 11.

(11) DEPTH:

The sounding reported in metres. If corrected, this is stated in the "GENERAL INFORMATION" chapter of section III. Charted depths are preceded by the letter "C".

(12) MAXIMUM

SAMPLING DEPTH: A code to indicate the deepest sampling depth (used for high speed sorting).

00 m - 50 m = 00

51 m - 150 m = 01

151 m - 250 m = 02

etc.

- (13) NUMBER OF DEPTHS: The number of levels observed (this is entered to initiate a computer safety check, guarding against the loss of punch-cards).
- (14) WATER COLOUR: A code based on the percentage of yellow (see table 2 and Note under FIELD "15" below).
- (15) WATER TRANSPARENCY: The depth in metres at which a Secchi disc (white disc, 30 cm. in diameter) just disappears from view, or the optical density expressed in percentage;
- NOTE: The "GENERAL INFORMATION" chapter in section III of the data record will state which method was used.
- (16) WAVES 1
($d_W d_W P_W H_W$ -code): The direction, period and height of the **wind-propagated** wave system. (See Tables 3, 4 and 5). Ref: World Meteorological Organization Codes 0885, 3155, 1555.
- (17) WAVES 2
($d_W d_W P_W H_W$ -code): The direction, period and height of the predominant **non-wind-propagated** wave system. (See Tables 3, 4 and 5). Ref: World Meteorological Organization Codes 0885, 3155, 1555.
- (18) WIND DIRECTION: The true direction to the nearest 10 degrees from which the wind is blowing (wind direction 990 means:—wind variable or direction unknown).
- (19) WIND FORCE
(WND-FCE): Beaufort notation (See Table 6).
- WIND SPEED
(WND-SPD): Anemometer reading reported in metres per second. Instrument height reported in "GENERAL INFORMATION" chapter of section III.
- (20) BAROMETER: The barometric pressure reported in millibars: the "GENERAL INFORMATION" chapter in Section III of the data record will state the type of instrument used.
- (21) AIR TEMPERATURE: In degrees Celsius.
- (22) WET BULB: In degrees Celsius.
- (23) ww CODE: Present Weather Code (See Table 7). Ref: WMO Code 4677
- (24) CLOUD TYPE: The type of predominating clouds (See Table 8). Ref: WMO Code 0500.
- (25) CLOUD AMOUNT: The sky coverage in eighths (See Table 9) Ref: WMO Code 2700
- (26) VISIBILITY: Visibility at the surface (See Table 10). Ref: WMO Code 4300.
- (27) STATION: A station reference number, assigned by the institute prior to, or during the survey.
- (28) HOURS AFTER HIGH WATER: Indicates the state of the tide for nearshore observations.

OBSERVED DATA HEADINGS

(1) GMT	(2) DEPTH	(3) TEMP	(4) SAL	(5) OXYGEN	(6) SGMT
(7) SOUND	(8) PO_4	(9) -P-	(10) NO_2	(11) NO_3	(12) SiO_2
				(13) pH.	

NOTE: Headings (1) to (7) will always be present. Headings (8) to (13) appear only when one or more additional chemical entries were made.

(1) G.M.T.: The Greenwich Mean Time of (in-situ) thermometer inversion and sea water sample collection.

When a multiple cast was initiated prior to and continued after midnight, the times indicated are uninterrupted by the change of day and appear beyond 24.0 hours. This will be accompanied by a statement: "MULTIPLE CAST CONTINUED NEXT DAY", which is printed following the last level of observed values.

(2) DEPTH: The depth in metres at the reversal time of deepest cast.

(3) TEMPERATURE: Temperatures from deepsea reversing thermometers, read to 0.01° C. Surface temperature measurement procedures are described in the chapter "OBSERVATION PROCEDURES" of section I, and/or the "GENERAL INFORMATION" chapter of section III. An alphabetical character following the temperature value represents the measurement error estimate referred to in the INTRODUCTION to this section.

(4) SALINITY: Salinity as defined by: $S = 0.03 + 1.805 C1\%$, reported in:
a. 1/100 parts per 1000, or
b. 1/1000 parts per 1000.

In case a: an alphabetical character following the value is the measurement error estimate as referred to under (3).

In case b: no error estimate indication is provided for, but an additional decimal digit takes its place.

(5) OXYGEN: The concentration of dissolved oxygen expressed in millilitres per litre to 2 decimal places. An alphabetical character following the value is the measurement error estimate as referred to under (3).

(6) SIGMA-T: The specific gravity anomaly as defined by: $(\text{Specific gravity} - 1) \times 10^4$ (e.g., σ_t reported as 2456, reads 24.56, and corresponds to a specific gravity of 1.02456).

(7) SOUND: The sound velocity is reported in m/sec. to 1 decimal place (e.g., 1437.9 m/sec.). The computation is carried out using Wilson's formula (1960), expressed in terms of temperature, salinity and total pressure.

- (8) PO_4 Phosphate-Phosphorus reported to hundredths of microgram-atoms per litre.
- (9) -P- Total Phosphorus reported to hundredths of microgram-atoms per litre.
- (10) NO_2 Nitrite-Nitrogen reported to hundredths of microgram-atoms per litre — No dissolved nitrogen included —
- (11) NO_3 Nitrate-Nitrogen reported to tenths of microgram-atoms per litre.
- (12) SiO_2 Silicate-Silicon reported in whole microgram-atoms per litre.
- (13) pH The pH value.

NOTE: "TRC" (trace) is reported when a chemical entry has a value less than the standard deviation of measurement for that particular variable.

INTERPOLATED DATA HEADINGS

- | | | | | | |
|-------------|------------|----------|------------|----------|-----------|
| (1) DEPTH | (2) TEMP | (3) SAL | (4) OXYGEN | (5) SGMT | (6) SOUND |
| (7) DELTA-D | (8) POT-EN | (9) SVA. | | | |

- (1) DEPTH: Standard Oceanographic Depth in whole metres, as well as additional depths: 125, 175, 225, 3500, 4500, 5500, 6500, 7500, 8500, 9500.
- (2) TEMPERATURE: Interpolated value at standard depth, followed by the combined measurement and interpolation error estimate (see "INTRODUCTION" to section II of the data record).
- (3) SALINITY:
- A. The reported salinity values are measured to three decimal places.
 - (i) the interpolation error estimate is less than twice the standard deviation of measurement
 - the interpolated value is reported to three decimal places (e.g., 30.139).
 - (ii) the interpolation error estimate is equal to or greater than twice the standard deviation of measurement.
 - the interpolated value is reported to two decimal places, and followed by the interpolation error estimate (e.g., 29.23 C).
 - B. The reported salinity values are measured to two decimal places and followed by the measurement error estimate.
 - the interpolated value is reported to two decimal places, and followed by the combined measurement and interpolation error estimate (e.g., 30.59 B).
- (4) OXYGEN: Interpolated value at standard depth, followed by the combined measurement and interpolation error estimate (see "Introduction" to section II of the data record).

- (5) SIGMA-T: Computed from temperature and salinity values at standard oceanographic depth.
- (6) SOUND VELOCITY: Computed from temperature, salinity and total pressure values at standard oceanographic depth, using Wilson's formula (1960).
- (7) DELTA-D: The geo-potential anomaly as defined by:
- $$\Delta D = \int_0^P \delta dp$$
- ΔD is expressed in dynamic metres (10^5 ergs/gram) and recorded to three decimal places (e.g., 2.345 dyn. metres).
- (8) POTENTIAL ENERGY ANOMALY: The Potential energy anomaly χ as defined by:
- $$\chi = \frac{1}{g} \int_0^P p \delta dp = \int_0^Z \rho p \delta dz$$
- χ is expressed in units of 10^8 ergs/cm² and recorded to two decimal places (e.g., 116.44).
- (9) SPECIFIC VOLUME ANOMALY: The specific volume anomaly as defined by:
- $$\delta = \alpha - \alpha_{35.0.P}$$
- δ is expressed in ml/gr, and conventionally reported as $10^5 \delta$, to one decimal place (i.e., δ reported as 1234, reads 123.4, and corresponds to a specific volume anomaly of 0.001234 ml/gr.).

SPECIAL CHARACTERS

Asterisk): this character may occur in the interpolated portion of the data record. It is printed at the extreme left hand side of the page, when three or more standard depth levels fall within any one observed depth interval. The third, and all consequent levels are preceded by the asterisk to indicate that more than two machine interpolations were carried out, utilizing the same set of interpolation parabolas. The asterisk will also appear when the last standard depth is an extrapolation and there are at least two interpolations between the last two observed depths.

DOUBTFUL DATA

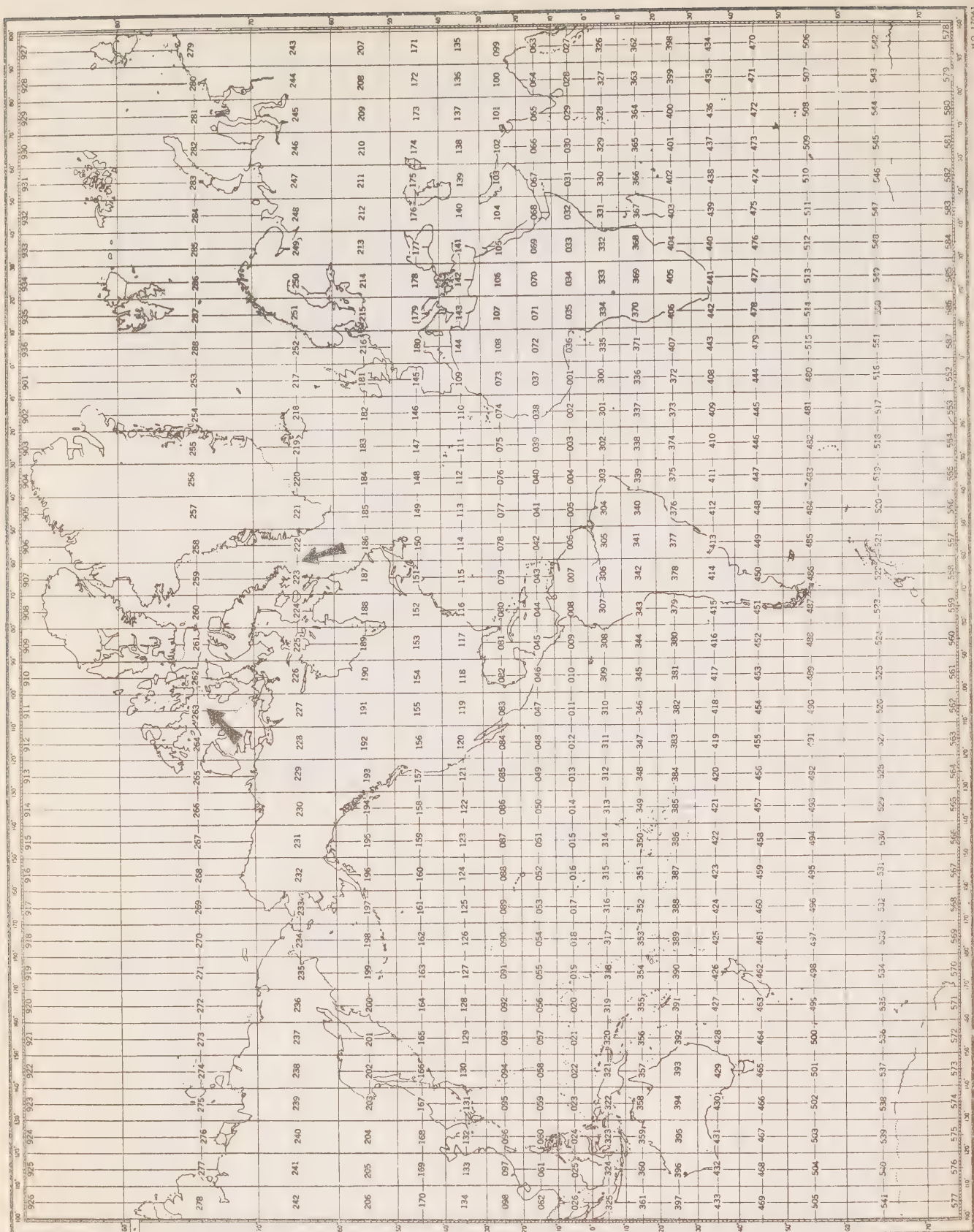
The doubtful data code formerly used in coding historical data and superseded by the measurement error estimate has been preserved. It appears in the "Observed Data" area, as a single digit:

- to the left of G. M. T. when no additional chemical headings are present, or
- between DEPTH and TEMP when additional chemical headings are printed

The doubtful data are reported according to the following code:

- 1 Depth
- 2 Temperature
- 3 Salinity
- 4 any combination of the above
- 5 Oxygen

Note: 1, 2, 3, and 4 take precedence over 5



MARSDEN SQUARE CHART

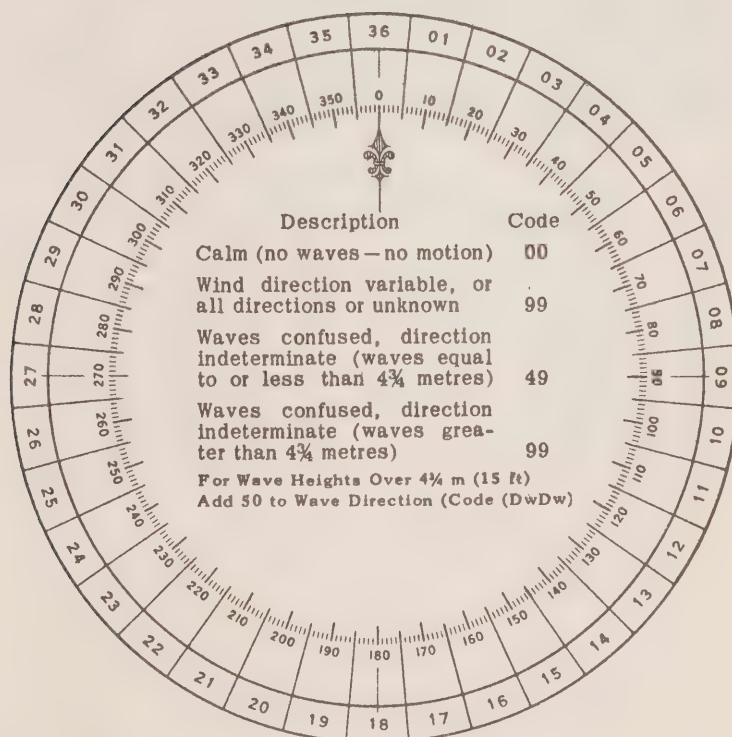
Table 1
CONVERSION
MINUTES TO $\frac{1}{4}$ HRS.

Minutes	Tenths Hrs.
00-03	0
04-08	1
09-15	2
16-20	3
21-27	4
28-32	5
33-39	6
40-44	7
45-51	8
52-56	9
57-59	0 (next HR.)

Table 2
WATER COLOR CODE
Based on Percentage Yellow

Code:	Description
00	Deep Blue
10	Blue
20	Greenish Blue
30	Bluish Green
40	Green
50	Light Green
60	Yellowish Green
70	Yellow Green
80	Green Yellow
90	Greenish Yellow
99	Yellow

Table 3. DIRECTION CODE (dd)



NOTE:

Always use the true direction from which the wind is blowing, or the direction from which Waves I (sea), or Waves II (swell) come.

Table 4. PERIOD OF THE WAVES (P_w)
(Measure to the Nearest Second)

Code:	Period in Seconds:	Code:	Period in Seconds:
2	5 sec. or less	8	16 or 17 sec.
3	6 or 7 sec.	9	18 or 19 sec.
4	8 or 9 sec.	0	20 or 21 sec.
5	10 or 11 sec.	1	Over 21 sec.
6	12 or 13 sec.	X	Calm, or period not determined
7	14 or 15 sec.		

Table 5. HEIGHT OF THE WAVES (H_w)

- The average value of the wave height (vertical distance between trough and crest) is reported, as obtained from the larger well formed waves of the wave system being observed.
- Each code figure provides for reporting a range of heights. For example: 1 = $\frac{1}{4}$ m (1 ft) to $\frac{3}{4}$ m ($2\frac{1}{2}$ ft); 5 = $2\frac{1}{4}$ m (7 ft) to $2\frac{3}{4}$ m (9 ft); 9 = $4\frac{1}{4}$ m ($13\frac{1}{2}$ ft) to 4 $\frac{3}{4}$ m (15 ft), etc.
- If a wave height comes exactly midway between the heights corresponding to two code figures, the lower code figure is reported; e.g. a height of $2\frac{3}{4}$ m is reported by code figure 5.

Code			Code
0	Less than ¼ m (1 ft)	Add 50 to Dw Dw	0 5 m (16 ft)
1	½ m (1½ ft)		1 5½ m (17½ ft)
2	1 m (3 ft)		2 6 m (19 ft)
3	1½ m (5 ft)		3 6½ m (21 ft)
4	2 m (6½ ft)		4 7 m (22½ ft)
5	2½ m (8 ft)		5 7½ m (24 ft)
6	3 m (9½ ft)		6 8 m (25½ ft)
7	3½ m (11 ft)		7 8½ m (27 ft)
8	4 m (13 ft)		8 9 m (29 ft)
9	4½ m (14 ft)		9 9½ m (30½ ft) or more
x	Height not determined		

Add
50
to
Dw Dw

Table 6. WIND FORCE CODE

The Beaufort force of the wind is estimated from the appearance of the sea surface, according to the table below. This table is only intended as a guide to show roughly what may be expected on the open sea, remote from land. Factors which must be taken into account are the "lag" effect between the wind increasing and the sea getting up; and the influence of "fetch", depth, swell, heavy rain and tide effect on the appearance of the sea. Estimation of the wind force by this method becomes unreliable in shallow water or when close inshore, owing to the tidal effect and the shelter provided by the land.

Code	Appearance of sea if fetch and duration of the blow have been sufficient to develop the sea fully	Description
00	Sea like a mirror	Calm
01	Ripples with the appearance of scales are formed, but without foam crests.	Light Air
02	Small wavelets; crests have a glassy appearance and do not break.	Light Breeze
03	Large wavelets; crests begin to break; foam of glassy appearance; perhaps scattered white horses.	Gentle Breeze
04	Small waves, becoming longer; fairly frequent white horses.	Moderate breeze
05	Moderate waves; many white horses are formed (chance of some spray)	Fresh Breeze
06	Large waves; white foam crests everywhere (probably some spray)	Strong Breeze
07	Sea heaps up and white foam from breaking waves begins to be blown in streaks along the direction of the wind.	Near Gale
08	Moderately high waves; edges of crests begin to break into the spindrift; foam is blown in well-marked streaks along the direction of the wind.	Gale
09	High waves; dense streaks of foam along wind; crests begin to topple, tumble and roll over; spray may affect visibility.	Strong Gale
10	Very high waves with long overhanging crests; foam in great patches blown in dense white streaks along wind; sea surface takes a white appearance; tumbling becomes heavy and shock-like; visibility affected.	Storm
11	Exceptionally high waves (medium sized ships may be lost to view behind waves); sea covered with long white patches of foam lying along the wind; everywhere edges of crests are blown into froth; visibility affected.	Violent Storm
12	Air is filled with foam and spray; sea completely white with driving spray; visibility seriously affected.	Hurricane

Table 7. PRESENT WEATHER

W.W. CODE

NO PRECIPITATION ON STATION AT TIME OF OBSERVATION

Code figure ww			
No meteors except photometeors	00	Cloud development not observed or not observable	characteristic change of the state of sky during the past hour
	01	Clouds generally dissolving or becoming less developed	
	02	State of sky on the whole unchanged	
Haze, dust, sand or smoke	03	Clouds generally forming or developing	
	04	Visibility reduced by smoke, e.g. veldt or forest fires, industrial smoke or volcanic ashes	
	05	Haze	
	06	Widespread dust in suspension in the air, not raised by wind at or near the station at the time of observation	
	07	Dust or sand raised by wind at or near the station at the time of observation, but no well developed dust whirl(s) or sand whirl(s), and no duststorm or sandstorm seen	
	08	Well developed dust whirl(s) or sand whirl(s) seen at or near the station during the preceding hour or at the time of observation, but no dustorm or sandstorm	
	09	Duststorm or sandstorm within sight at the time of observation, or at the station during the preceding hour	
	10	Mist	
	11	Patches of	shallow fog or ice fog at the station, whether on land or sea, not deeper than about 2 metres on land or 10 metres at sea
	12	More of less continuous	
	13	Lightning visible, no thunder heard	
	14	Precipitation within sight, not reaching the ground or the surface of the sea	
	15	Precipitation within sight, reaching the ground or the surface of the sea, but distant (i.e. estimated to be more than 5 km) from the station	
	16	Precipitation within sight, reaching the ground or the surface of the sea, near to, but not at the station	
	17	Thunderstorm, but no precepitation at the time of observation	
	18	Squalls	at or within sight of the station during the preceding hour or at the time of observation
	19	Funnel clouds	
ww = 20 - 29			
	20	Precipitation, fog, ice fog or thunderstorm at the station during the preceding hour but not at the time of observation	not falling as shower(s)
	21	Drizzle (not freezing) or snow grains	
	22	Rain (not freezing)	
	23	Snow	
	24	Rain and snow or ice pellets, type (a)	
	25	Freezing drizzle or freezing rain	
	26	Shower(s) of rain	
	27	Shower(s) of snow, or of rain and snow	
	28	Shower(s) of hail, or of rain and hail	
	29	Fog or ice fog	
ww = 30 - 39			
	30	Duststorm, sandstorm, drifting or blowing snow	- has decreased during the preceding hour
	31	Slight or moderate duststorm or sandstorm	
	32		- no appreciable change during the preceding hour
	33		- has begun or has increased during the preceding hour
	34	Severe duststorm or sandstorm	- has decreased during the preceding hour
	35		
	36	Slight or moderate blowing snow	generally low (below eye level)
	37	Heavy drifting snow	
	38	Slight or moderate blowing snow	generally high (above eye level)
	39	Heavy blowing snow	
ww = 40 - 49			
	40	Fog or ice fog at the time of observation	
	41	Fog or ice fog at a distance at the time of observation, but not at the station during the preceding hour, the fog or ice fog extending to a level above that of the observer	
	42	Fog or ice fog in patches	
	43	Fog or ice fog, sky visible	has become thinner during the preceding hour
	44	Fog or ice fog, sky invisible	
	45	Fog or ice fog, sky visible	no appreciable change during the preceding hour
	46	Fog or ice fog, sky invisible	
	47	Fog or ice fog, sky visible	has begun or has become thicker during the preceding hour
	48	Fog or ice fog, sky invisible	
	49	Fog, depositing rime, sky visible	
		Fog, depositing rime, sky invisible	

NO PRECIPITATION ON STATION AT TIME OF OBSERVATION

PRECIPITATION ON STATION AT TIME OF OBSERVATION

ww = 50 - 59 Drizzle

50	Drizzle, not freezing, intermittent	{	slight at time of observation
51	Drizzle, not freezing, continuous		
52	Drizzle, not freezing, intermittent	{	moderate at time of observation
53	Drizzle, not freezing, continuous		
54	Drizzle, not freezing, intermittent	{	heavy (dense) at time of observation
55	Drizzle, not freezing, continuous		
56	Drizzle, freezing, slight		
57	Drizzle, freezing, moderate or heavy (dense)		
58	Drizzle and rain, slight		
59	Drizzle and rain, moderate or heavy		

ww = 60 - 69 Rain

60	Rain, not freezing, intermittent	{	slight at time of observation
61	Rain, not freezing, continuous		
62	Rain, not freezing, intermittent	{	moderate at time of observation
63	Rain, not freezing, continuous		
64	Rain, not freezing, intermittent	{	heavy at time of observation
65	Rain, not freezing, continuous		
66	Rain, freezing, slight		
67	Rain, freezing, moderate or heavy		
68	Rain or drizzle and snow, slight		
69	Rain or drizzle and snow, moderate or heavy		

70 - 79 Solid precipitation not in showers

ww			
70	Intermittent fall of snow flakes	{	slight at time of observation
71	Continuous fall of snow flakes		
72	Intermittent fall of snow flakes	{	moderate at time of observation
73	Continuous fall of snow flakes		
74	Intermittent fall of snow flakes	{	heavy at time of observation
75	Continuous fall of snow flakes		
76	Ice prisms (with or without fog)		
77	Snow grains (with or without fog)		
78	Isolated starlike snow crystals (with or without fog)		
79	Ice pellets, type (a)		

ww = 80 - 99 Showery precipitation, or precipitation with current or recent thunderstorm

80	Rain shower(s), slight		
81	Rain shower(s), moderate or heavy		
82	Rain shower(s), violent		
83	Shower(s) of rain and snow mixed, slight		
84	Shower(s) of rain and snow mixed, moderate or heavy		
85	Snow shower(s), slight		
86	Snow shower(s), moderate or heavy		
87	Shower(s) of snow pellets or ice pellets, type (b), with or without rain	{	- slight
88	or rain and snow mixed		
89	Shower(s) of hail, with or without rain or rain and snow mixed, not associated with thunder	{	- moderate or heavy
90			
91	Slight rain at time of observation		
92	Moderate or heavy rain at time of observation		
93	Slight snow, or rain and snow mixed or hail at time of observation	{	thunderstorm during the preceding hour but not at time of observation
94	Moderate or heavy snow, or rain and snow mixed or hail at time of observation		
95	Thunderstorm, slight or moderate, without hail, but with rain and/or snow at time of observation	{	thunderstorm at time of observation
96	Thunderstorm, slight or moderate, with hail at time of observation		
97	Thunderstorm, heavy, without hail, but with rain and/or snow at time of observation		
98	Thunderstorm, combined with duststorm or sandstorm at time of observation		
99	Thunderstorm, heavy, with hail at time of observation		

PRECIPITATION ON STATION AT TIME OF OBSERVATION

Table 8. CLOUD TYPE CODE

Code	Cloud Type	Code	Cloud Type
0	Cirrus Ci	5	Nimbostratus Ns
1	Cirrocumulus Cc	6	Stratocumulus Sc
2	Cirrostratus Cs	7	Stratus St
3	Alto cumulus Ac	8	Cumulus Cu
4	Altostratus As	9	Cumulonimbus Cb
X	Cloud not visible owing to darkness, fog, duststorm, sandstorm, or other analogous phenomena		

Table 9. CLOUD AMOUNT CODE

Code	Cloud Cover	Code	Cloud Cover
0	0	6	6 oktas
1	1 okta or less, but not zero	7	7 oktas or more, but not 8 oktas
2	2 oktas	8	8 oktas
3	3 oktas	9	Sky obscured, or cloud amount cannot be estimated
4	4 oktas		
5	5 oktas		

Note: 1 okta = $\frac{1}{8}$ of the sky covered

Table 10. VISIBILITY

Code	Estimate of hor. Visibility
0	Less than 50 metres (less than 55 yards)
1	50-200 metres (approx. 55-220 yards)
2	200-500 metres (approx. 220-550 yards)
3	500-1,000 metres (approx. 550 yards- $\frac{5}{8}$ n.m.)
4	1-2 km (approx. $\frac{3}{8}$ -1 n.m.)
5	2-4 km (approx. 1-2 n.m.)
6	4-10 km (approx. 2-6 n.m.)
7	10-20 km (approx. 6-12 n.m.)
8	20-50 km (approx. 12-30 n.m.)
9	50 km or more (30 n.m. or more)

Note: n.m. = nautical mile

Table 11CCO Institute Code

01. Atlantic Oceanographic Group.
02. Pacific Oceanographic Group.
03. Biological Station, St. Andrews, N.B.
04. Arctic Biological Station, St. Anne de Bellevue, P.Q.
05. Biological Station, St. John's, Nfld.
06. Station de Biologie Marine, Grande Riviere, P.Q.
07. Canadian Hydrographic Service.
08. Naval Research Establishment, Dartmouth, N.S.
09. Pacific Naval Laboratory, Esquimalt, B.C.
10. Bedford Institute of Oceanography.
11. Polar Continental Shelf Project.
12. Great Lakes Institute.
13. Inland Region, Oceanographic Research, Ottawa.
14. Institute of Oceanography, Dalhousie University.

SECTION III

Serial oceanographic data

GENERAL INFORMATION

<u>Institute:</u>	Canadian Hydrographic Service
<u>Observation platform:</u>	CCGS "John A. MacDonald"
<u>Vessel's cruising speed:</u>	14 knots
<u>Total number of stations occupied:</u>	69
<u>Barometer readings:</u>	Aneroid Barometer (corrected)
<u>Air Temperature:</u>	Sling Psychrometer
<u>Wet bulb temperature:</u>	Sling Psychrometer
<u>Surface sea water temperature:</u>	Bucket sample (deck thermometer)

The following Standard Deviations were used to express both measurement and interpolation error estimates:

Temperature	0.02
Salinity	0.004

C-REF-NO 344	YR 1961	DEPTH 713	WAVES 1	X0	AIR T -01.8	VIS
CONS. NO 001	MONTH 8	MXSAMPD 04	WAVES 2	X0	WET B -02.8	STN
LAT 80-270N	DAY 22	NO.DPTH 11	WND-DIR 320	WW-CODE 02		
LON 87-235W	HR 17.9	W-COLOR	WND-FCE 03	CLD-TPE 5		
MARSD SQ 909	C/I 1813	W-TRNSP	BARO 1002.	CLD-AMT 5	HW	

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
179	0000	-0078				
179	0005	-0124				
179	0010	-0160				
179	0025	-0162				
179	0049	-0133				
179	0074	-0137				
179	0098	-0135				
179	0148	-0092				
179	0197	-0054				
179	0295	-0007				
179	0394	0024				

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0078							
0010	-0160							
0020	-0171 C							
0030	-0156							
0050	-0133							
0075	-0137							
0100	-0134							
0125	-0115							
0150	-0090							
0175	-0070							
0200	-0052							
0225	-0038							
*0250	-0025							
0300	-0002							
0400	0025							

C-REF-NO 344	YR 1961	DEPTH	95	WAVES 1	X0	AIR T -04.5	VIS
CONS. NO 002	MONTH 8	MXSAMPD	01	WAVES 2	X0	WET B	STN
LAT 77-240N	DAY 24	NO.DPTH	5	WNC-DIR	270	WW-CODE 70	
LON 89-300W	HR 04.8	W-COLOR		WND-FCE	02	CLD-TPE C	
MARSD SQ 261	C/I 1813	W-TRNSP		BARO 1008.		CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
048	0000	-0092				
048	0010	-0102				
048	0025	-0151				
048	0050	-0148				
048	0075	-0096				

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0092							
0010	-0102							
0020	-0135 B							
0030	-0157							
0050	-0148							
0075	-0096							

C-REF-NO 344 YR 1961 DEPTH 285 WAVES 1 X0 AIR T -02.8 VIS
 CONS. NO 003 MONTH 8 MXSAMPD 02 WAVES 2 X0 WET B -02.9 STN
 LAT 77-020N DAY 24 NO.DPTH 6 WND-DIR 270 WW-CODE 02
 LON 89-390W HR 12.7 W-COLOR WND-FCE 02 CLD-TPE 5
 MARSD SQ 261 C/I 1613 W-TRNSP BARO 1008. CLD-AMT 6 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
127	0000	-0109				
127	0010	-0136				
127	0025	-0148				
127	0100	-0124				
127	0150	-0043				
127	0200	0014				

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0109							
0010	-0136							
0020	-0146							
0030	-0150							
0050	-0154							
*0075	-0146							
0100	-0124							
0125	-0085 B							
0150	-0043							
0175	-0024 C							
0200	0014							

C-REF-NO 344	YR 1961	DEPTH 55	WAVES 1 X2	AIR T -02.1	VIS
CONS. NO 004	MONTH 8	MXSAMPD 00	WAVES 2 X0	WET B -02.7	STN
LAT 75-53CN	DAY 28	NO.DPTH 5	WND-DIR 320	WW-CODE 02	
LON 95-C80W	HR 20.4	W-COLOR	WND-FCE 04	CLD-TPE 5	
MARSD SQ 262	C/I 1813	W-TRNSP	BARO 1016.	CLD-AMT 8	HW

O B S E R V E D

	GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
2	204	0000	-0113				
2	204	0010	-0084				
		204 0020	-0056				
		204 0030	-0054				
		204 0050	-0062				

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SWA
0000	-0113							
0010	-0084							
0020	-0056							
0030	-0054							
0050	-0062							

C-REF-NO 344	YR 1961	DEPTH 55	WAVES 1 X2	AIR T -02.1	VIS
CONS. NO 005	MONTH 8	MXSAMPD 00	WAVES 2 X0	WET B -02.7	STN
LAT 75-530N	DAY 28	NO.DPTH 5	WND-DIR 320	WW-CODE 02	
LON 95-08CW	HR 21.4	W-COLOR	WND-FCE 05	CLO-TPE 5	
MARSD SQ 262	C/I 1813	W-TRNSP	BARO 1016.	CLO-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
214	0000	-0059				
214	0010	-0054				
214	0020	-0052				
214	0030	-0054				
214	0050	-0053				

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0059							
0010	-0054							
0020	-0052							
0030	-0054							
0050	-0053							

C-REF-NO 344	YR 1961	DEPTH	55	WAVES 1	X2	AIR T -01.9	VIS
CONS. NO 006	MONTH 8	MXSAMPD	00	WAVES 2	X0	WET B -02.6	STN
LAT 75-530N	DAY 28	NO.DPTH	4	WND-DIR	320	WW-CODE 02	
LON 95-080W	HR 22.3	W-COLOR		WND-FCE	06	CLD-TPE 5	
MARSD SQ 262	C/I 1813	W-TRNSP		BARO	1016.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
223	0000	-0091				
223	0020	-0052				
223	0030	-0053				
223	0050	-0055				

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-C	POT.EN	SEA
0000	-0091							
0010	-0070							
0020	-0052							
0030	-0053							
0050	-0055							

C-REF-NO 344	YR 1961	DEPTH	55	WAVES 1	X2	AIR T -01.7	VIS
CONS. NO 007	MONTH 8	MXSAMPD	00	WAVES 2	X0	WET B -02.4	STN
LAT 75-530N	DAY 28	NO.DPTH	4	WND-DIR	330	WW-CODE 02	
LON 95-080W	HR 23.3	W-COLOR		WND-FCE	06	CLD-TPE 5	
MARSD SQ 262	C/I 1813	W-TRNSP		BARO 1015.		CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
233	0000	-0058				
233	0020	-0054				
233	0030	-0053				
233	0050	-0052				

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0058							
0010	-0056							
0020	-0054							
0030	-0053							
0050	-0052							

C-REF-NO 344	YR 1961	DEPTH 55	WAVES 1 X2	AIR T -01.6	VIS
CONS. NO 008	MONTH 8	MXSAMPD 00	WAVES 2 X0	WET B -02.3	STN
LAT 75-530N	DAY 29	NO.DPTH 5	WND-DIR 330	WW-CODE 02	
LON 95-080W	HR 00.2	W-COLOR	WND-FCE 05	CLD-TPE 5	
MARSD SQ 262	C/I 1813	W-TRNSP	BARO 1015.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
002	0000	-0056				
002	0010	-0048				
002	0020	-0050				
002	0030	-0053				
002	0050	-0051				

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0056							
0010	-0048							
0020	-0050							
0030	-0053							
0050	-0051							

C-REF-NO 344	YR 1961	DEPTH	55	WAVES 1	X2	AIR T -01.6	VIS
CONS. NO 009	MONTH 8	MXSAMPD	00	WAVES 2	X0	WET B -02.3	STN
LAT 75-530N	DAY 29	NO.DPTH	4	WND-DIR	330	WW-CODE 02	
LON 95-080W	HR 01.3	W-COLOR		WND-FCE	05	CLD-TPE 5	
MARSD SQ 262	C/I 1813	W-TRNSP		BARO	1015.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
013	0000	-0054				
013	0010	-0051				
013	0020	-0052				
013	0049	-0056				

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0054							
0010	-0051							
0020	-0052							
0030	-0051							
0050	-0056							

C-REF-NO 344	YR 1961	DEPTH	55	WAVES 1	X2	AIR T -02.1	VIS
CONS. NO 010	MONTH 8	MXSAMPD	00	WAVES 2	X0	WET B -02.5	STN
LAT 75-53CN	DAY 29	NO.DPTH	4	WND-DIR	340	WW-CODE C2	
LON 95-083W	HR 02.2	W-COLOR		WND-FCE	05	CLD-TPE 5	
MARSD SQ 262	C/I 1813	W-TRNSP		BARO	1014.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
C22	0000	-0062				
C22	0010	-0060				
C22	0019	-0052				
C22	0048	-C057				

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
C000	-0062							
0010	-0060							
0020	-0055							
0030	-0054							
*C050	-0058							

C-REF-NO 344	YR 1961	DEPTH 55	WAVES 1 X2	AIR T -02.1	VIS
CONS. NO 011	MONTH 8	MXSAMPD 00	WAVES 2 X0	WET B -02.5	STN
LAT 75-530N	DAY 29	NO.DPTH 5	WND-DIR 340	WW-CODE 02	
LON 95-083W	HR 03.2	W-COLOR	WND-FCE 04	CLD-TPE 5	
MARSD SQ 262	C/I 1813	W-TRNSP	BARO 1014.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
032	0000	-0065				
032	0009	-0047				
032	0019	-0052				
032	0028	-0054				
032	0047	-0053				

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0065							
0010	-0047							
0020	-0052							
0030	-0054							

C-REF-NO 344	YR 1961	DEPTH	91	WAVES 1	X2	AIR T -02.1	VIS
CONS. NO 012	MONTH 8	MXSAMPD	00	WAVES 2	X0	WET B -02.5	STN
LAT 75-53CN	DAY 29	NO.DPTH	5	WND-DIR	340	WW-CODE 02	
LON 95-083W	HR 04.2	W-COLOR		WND-FCE	02	CLD-TPE 5	
MARSD SQ 262	C/I 1813	W-TRNSP		BARO	1014.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
042	0000	-0068				
042	0009	-0067				
042	0019	-0064				
042	0028	-0060				
042	0047	-0054				

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0068							
0010	-0067							
0020	-0064							
0030	-0060							

C-REF-NO 344	YR 1961	DEPTH 55	WAVES 1 X1	AIR T -02.3	VIS
CONS. NO 013	MONTH 8	MXSAMPD 00	WAVES 2 X0	WET B -02.9	STN
LAT 75-530N	DAY 29	NO.DPTH 5	WND-DIR 340	WW-CODE 02	
LON 95-083W	HR 05.3	W-COLOR	WND-FCE 02	CLD-TPE 5	
MARSD SQ 262	C/I 1813	W-TRNSP	BARO 1014.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
053	0000	-0052				
053	0009	-0056				
053	0019	-0061				
053	0028	-0062				
053	0047	-0061				

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0052							
0010	-0057							
0020	-0061							
0030	-0063							

C-REF-NO 344	YR 1961	DEPTH	55	WAVES 1	XO	AIR T -02.2	VIS
CONS. NO 014	MONTH 8	MXSAMPD	00	WAVES 2	XO	WET B -02.8	STN
LAT 75-53CN	DAY 29	NO.DPTH	5	WND-DIR		WW-CODE 03	
LON 95-C83W	HR 06.2	W-COLOR		WND-SPD		CLD-TPE 5	
MARSD SQ 262	C/I 1813	W-TRNSP		BARO 1013.		CLD-AMT 2	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
C62	0000	-0063				
C62	0010	-0052				
C62	0019	-0052				
C62	0029	-0061				
C62	0048	-0062				

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0063							
0010	-0052							
0020	-0053							
0030	-0058 B							

C-REF-NO 344	YR 1961	DEPTH	55	WAVES 1	X1	AIR T -01.6	VIS
CONS. NO 015	MONTH 8	MXSAMPD	00	WAVES 2	X0	WET B -02.8	STN
LAT 75-530N	DAY 29	NO.DPTH	5	WND-DIR	340	WW-CODE 03	
LON 95-083W	HR 07.2	W-COLOR		WND-FCE	01	CLD-TPE 5	
MARSD SQ 262	C/I 1813	W-TRNSP		BARO	1013.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
C72	0000	-0053				
C72	0010	-0046				
072	0019	-0044				
072	0029	-0045				
C72	0049	-0062				

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0053							
0010	-0046							
0020	-0044							
0030	-0046							
0050	-0063							

C-REF-NO 344	YR 1961	DEPTH	55	WAVES 1	X1	AIR T -01.4	VIS
CONS. NO 016	MONTH 8	MXSAMPD	00	WAVES 2	X0	WET B -03.0	STN
LAT 75-53CN	DAY 29	NO.DPTH	5	WND-DIR	340	WW-CODE 02	
LON 95-C83W	HR 08.2	W-COLOR		WND-FCE	02	CLD-TPE 6	
MARSD SQ 262	C/I 1813	W-TRNSP		BARO	1012.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
082	0000	-0074				
082	0010	-0052				
082	0020	-0046				
082	0030	-0050				
082	0049	-0053				

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0074							
0010	-0052							
0020	-0046							
0030	-0050							
0050	-0054							

C-REF-NO 344	YR 1961	DEPTH	55	WAVES 1	X2	AIR T -01.8	VIS
CONS. NO 017	MONTH 8	MXSAMPD	00	WAVES 2	X0	WET B -02.7	STN
LAT 75-53CN	DAY 29	NO.DPTH	3	WND-DIR	340	WW-CODE 02	
LON 95-083W	HR 09.1	W-COLOR		WND-FCE	02	CLD-TPE 5	
MARSD SQ 262	C/I 1813	W-TRNSP		BARO	1012.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
091	0000	-0070				
091	0010	-0045				
091	0020	-0046				

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
C000	-0070							
0010	-0045							
0020	-0046							

C-REF-NO 344	YR 1961	DEPTH	55	WAVES 1	X2	AIR T -02.1	VIS
CONS. NO 018	MONTH 8	MXSAMPD	00	WAVES 2	X0	WET B -02.9	STN
LAT 75-530N	DAY 29	NO.DPTH	4	WND-DIR	340	WW-CODE 02	
LON 95-083W	HR 11.0	W-COLOR		WND-FCE	05	CLD-TPE 5	
MARSD SQ 262	C/I 1813	W-TRNSP		BARO	1012.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
110	0000	-0062				
110	0010	-0051				
110	0020	-0054				
110	0030	-0054				

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0062							
0010	-0051							
0020	-0054							
0030	-0054							

C-REF-NO 344	YR 1961	DEPTH 55	WAVES 1 X3	AIR T -01.8	VIS
CONS. NO 019	MONTH 8	MXSAMPD 00	WAVES 2 X0	WET B -02.0	STN
LAT 75-530N	DAY 29	NO.DPTH 4	WND-DIR 340	WW-CODE 02	
LON 95-083W	HR 12.2	W-COLOR	WND-FCE 05	CLD-TPE 5	
MARSD SQ 262	C/I 1813	W-TRNSP	BARO 1012.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
122	0000	-0050				
122	0020	-0052				
122	0030	-0052				
122	0050	-0056				

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0050							
0010	-0051							
0020	-0052							
0030	-0052							
0050	-0056							

C-REF-NO 344	YR 1961	DEPTH	55	WAVES 1	X3	AIR T -02.1	VIS
CONS. NO 020	MONTH 8	MXSAMPD	00	WAVES 2	X0	WET B -02.3	STN
LAT 75-530N	DAY 29	NO.DPTH	4	WND-DIR	330	WW-CODE 02	
LON 95-C83W	HR 13.2	W-COLOR		WND-FCE	05	CLD-TPE 5	
MARSD SQ 262	C/I 1813	W-TRNSP		BARO 1012.		CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
132	0000	-0058				
132	0020	-0052				
132	0030	-0054				
132	0050	-0056				

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0058							
0010	-0055							
0020	-0052							
0030	-0054							
0050	-0056							

C-REF-NO 344	YR 1961	DEPTH	55	WAVES 1	X3	AIR T -02.1	VIS
CONS. NO 021	MONTH 8	MXSAMPD	00	WAVES 2	X0	WET B -02.5	STN
LAT 75-530N	DAY 29	NO.DPTH	4	WND-DIR	330	WW-CODE 02	
LON 95-083W	HR 14.2	W-COLOR		WND-FCE	05	CLD-TPE 5	
MARSD SQ 262	C/I 1813	W-TRNSP		BARO 1012.		CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
142	0000	-0056				
142	0020	-0054				
142	0030	-0058				
142	0050	-0058				

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0056							
0010	-0056							
0020	-0054							
0030	-0058							
0050	-0058							

C-REF-NO 344	YR 1961	DEPTH	55	WAVES 1	X3	AIR T -02.2	VIS
CONS. NO 022	MONTH 8	MXSAMPD	00	WAVES 2	X0	WET B -02.7	STN
LAT 75-530N	DAY 29	NO.DPTH	4	WND-DIR	330	WW-CODE 02	
LON 95-C83W	HR 15.2	W-COLOR		WND-FCE	05	CLD-TPE 5	
MARSD SQ 262	C/I 1813	W-TRNSP		BARO 1012.		CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
152	0000	-0054				
152	0020	-0054				
152	0030	-0054				
152	0050	-0056				

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0054							
0010	-0054							
0020	-0054							
0030	-0054							
0050	-0056							

C-REF-NO 344	YR 1961	DEPTH	55	WAVES 1	X2	AIR T -02.3	VIS
CONS. NO 023	MONTH 8	MXSAMPD	00	WAVES 2	X0	WET B -02.9	STN
LAT 75-530N	DAY 29	NO.DPTH	4	WND-DIR	330	WW-CODE 02	
LON 95-083W	HR 16.2	W-COLOR		WND-FCE	05	CLD-TPE 5	
MARSD SQ 262	C/I 1813	W-TRNSP		BARO 1012.		CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
162	0000	-0054				
162	0020	-0054				
162	0030	-0054				
162	0050	-0060				

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0054							
0010	-0053							
0020	-0054							
0030	-0054							
0050	-0060							

C-REF-NO 344	YR 1961	DEPTH	55	WAVES 1	X2	AIR T -02.6	VIS
CONS. NO 024	MONTH 8	MXSAMPD	00	WAVES 2	X0	WET B -03.1	STN
LAT 75-530N	DAY 29	NO.DPTH	5	WND-DIR	330	WW-CODE C2	
LON 95-C83W	HR 17.2	W-COLOR		WND-FCE	04	CLD-TPE 5	
MARSD SQ 262	C/I 1813	W-TRNSP		BARO	1011.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
172	0000	-0054				
172	0010	-0047				
172	0020	-0050				
172	0030	-0054				
172	0049	-0057				

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0054							
0010	-0047							
0020	-0050							
0030	-0054							
0050	-0057							

C-REF-NO 344	YR 1961	DEPTH	55	WAVES 1	X2	AIR T -02.2	VIS
CONS. NO 025	MONTH 8	MXSAMPD	00	WAVES 2	X0	WET B -02.8	STN
LAT 75-530N	DAY 29	NO.DPTH	5	WND-DIR	330	WW-CODE 02	
LON 95-083W	HR 18.2	W-COLOR		WND-FCE	04	CLD-TPE 5	
MARSD SQ 262	C/I 1813	W-TRNSP		BARO	1011.	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
182	0000	-0060				
182	0010	-0053				
182	0020	-0052				
182	0030	-0050				
182	0050	-0058				

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0060							
0010	-0053							
0020	-0052							
0030	-0050							
0050	-0058							

C-REF-NO 344	YR 1961	DEPTH 55	WAVES 1 X2	AIR T -02.2	VIS
CONS. NO 026	MONTH 8	MXSAMPD 00	WAVES 2 X0	WET B -02.8	STN
LAT 75-530N	DAY 29	NO.DPTH 5	WNC-DIR 330	WW-COCE 02	
LON 95-083W	HR 19.2	W-COLOR	WND-FCE 03	CLD-TPE 5	
MARSD SQ 262	C/I 1813	W-TRNSP	BARO 1010.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
192	0000	-0060				
192	0010	-0057				
192	0020	-0056				
192	0030	-0053				
192	0050	-0056				

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0060							
0010	-0057							
0020	-0056							
0030	-0053							
0050	-0056							

C-REF-NO 344	YR 1961	DEPTH	55	WAVES 1	X1	AIR T -01.4	VIS
CONS. NO 027	MONTH 8	MXSAMPD	00	WAVES 2	X0	WET B -01.9	STN
LAT 75-530N	DAY 29	NO.DPTH	5	WND-DIR	330	WW-CODE 02	
LON 95-083W	HR 20.2	W-COLOR		WND-FCE	02	CLD-TPE 5	
MARSD SQ 262	C/I 1813	W-TRNSP		BARO 1010.		CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
202	0000	-0062				
202	0010	-0054				
202	0020	-0055				
202	0030	-0052				
202	0050	-0055				

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0062							
0010	-0054							
0020	-0055							
0030	-0052							
0050	-0055							

C-REF-NO 344	YR 1961	DEPTH 132	WAVES 1 X1	AIR T 00.1	VIS
CONS. NO 028	MONTH 8	MXSAMPD 01	WAVES 2 X0	WET B -00.1	STN
LAT 75-250N	DAY 30	NO.DPTH 8	WND-DIR 010	WW-CODE 02	
LON 92-350W	HR 02.1	W-COLOR	WND-FCE 02	CLD-TPE 5	
MARSD SQ 262	C/I 1813	W-TRNSP	BARO 1009.	CLD-AMT 7	HW

O B S E R V E D

	GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
		0000	-0099				
		0010	-0096				
		0020	-0114				
		0030	-0120				
2	C21	0049	-0104				
		0074	-0100				
2	C21	0098	-0113				
		0123	-0120				

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0099							
0010	-0096							
0020	-0114							
0030	-0120							
0050	-0103							
0075	-0100							
0100	-0110							
0125	-0121							

C-REF-NO 344 YR 1961 DEPTH 161 WAVES 1 X1 AIR T 00.1 VIS
 CONS. NO 029 MONTH 8 MXSAMPD 01 WAVES 2 X0 WET B -00.7 STN
 LAT 75-240N DAY 30 NO.DPTH 8 WND-DIR 010 WW-CODE 02
 LON 93-020W HR 03.4 W-COLOR WND-FCE 02 CLD-TPE 5
 MARSD SQ 262 C/I 1813 W-TRNSP BARO 1008. CLD-AMT 7 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
034	0000	0042				
034	0010	0042				
034	0020	0048				
034	0030	-0017				
034	0049	-0070				
034	0074	-0045				
034	0098	-0046				
034	0148	-0096				

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0042							
0010	0042							
0020	0048							
0030	-0017							
0050	-0070							
0075	-0045							
0100	-0044							
0125	-0062							
*0150	-0100							

C-REF-NO 344	YR 1961	DEPTH 250	WAVES 1 X1	AIR T 00.4	VIS
CONS. NO 030	MONTH 8	MXSAMPD 02	WAVES 2 X0	WET B -00.8	STN
LAT 75-230N	DAY 30	NO.DPTH 9	WND-DIR 010	WW-CODE 02	
LON 93-260W	HR 04.9	W-COLOR	WND-FCE 02	CLD-TPE 5	
MARSD SQ 262	C/I 1813	W-TRNSP	BARO 1008.	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
C49	0000	0085				
C49	0010	0082				
C49	0020	0046				
C49	0030	-0028				
C49	0050	-0030				
C49	0075	-0037				
C49	0100	-0050				
C49	0150	-0082				
C49	0200	-0096				

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0085							
0010	0082							
0020	0046							
0030	-0028							
0050	-0030							
0075	-0037							
0100	-0050							
0125	-0067							
0150	-0082							
0175	-0088							
0200	-0096							

C-REF-NO 344	YR 1961	DEPTH 70	WAVES 1 XO	AIR T -04.3	VIS
CONS. NO 031	MONTH 9	MXSAMPD 00	WAVES 2 XO	WET B -04.8	STN
LAT 75-11CN	DAY 03	NO.DPTH 5	WND-DIR 990	WW-CODE 02	
LON 105-225W	HR 01.3	W-COLOR	WND-FCE 01	CLD-TPE 5	
MARSD SQ 263	C/I 1813	W-TRNSP	BARO 1014.	CLD-AMT 5	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
013	0000	-0135				
013	0010	-0129				
013	0020	-0128				
013	0030	-0124				
013	0050	-0128				

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0135							
0010	-0129							
0020	-0128							
0030	-0124							
0050	-0128							

C-REF-NO 344	YR 1961	DEPTH	55	WAVES 1	XO	AIR T -05.6	VIS
CONS. NO 032	MONTH 9	MXSAMPD	00	WAVES 2	XO	WET B -05.9	STN
LAT 75-104N	DAY 03	NO.DPTH	5	WND-DIR	320	WW-CODE 02	
LON 105-395W	HR 02.7	W-COLOR		WND-FCE	01	CLD-TPE 5	
MARSD SQ 263	C/I 1813	W-TRNSP		BARO 1014.		CLD-AMT 5	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
C27	0000	-0141				
C27	0010	-0140				
C27	0020	-0148				
C27	0030	-0143				
C27	0050	-0136				

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0141							
0010	-0140							
0020	-0148							
0030	-0143							
0050	-0136							

C-REF-NO 344	YR 1961	DEPTH 160	WAVES 1	X0	AIR T -05.6	VIS
CONS. NO 033	MONTH 9	MXSAMPD 01	WAVES 2	X0	WET B -05.9	STN
LAT 75-088N	DAY 03	NO.DPTH 8	WND-DIR 320	WW-CODE 02		
LON 105-019W	HR 04.3	W-COLOR	WND-FCE 01	CLD-TPE 5		
MARSD SQ 263	C/I 1813	W-TRNSP	BARO 1014.	CLD-AMT 5	HW	

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
C43	0000	-0143				
C43	0010	-0150				
C43	0020	-0142				
C43	0030	-0146				
C43	0050	-0140				
C43	0075	-0124				
C43	0100	-0112				
C43	0150	-0050				

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0143							
0010	-0150							
0020	-0142							
0030	-0146							
0050	-0140							
0075	-0124							
0100	-0112							
0125	-0082							
0150	-0050							

C-REF-NO 344	YR 1961	DEPTH 100	WAVES 1 X0	AIR T -03.3	VIS
CONS. NO 034	MONTH 9	MXSAMPD 01	WAVES 2 X0	WET B -03.9	STN
LAT 75-053N	DAY 03	NO.DPTH 7	WND-DIR 090	WW-CODE 03	
LON 103-225W	HR 13.4	W-COLOR	WND-FCE 01	CLD-TPE 5	
MARSD SQ 263	C/I 1813	W-TRNSP	BARO 1014.	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
134	0000	-0163				
134	0010	-0162				
134	0020	-0144				
134	0030	-0145				
134	0050	-0145				
134	0075	-0120				
134	0100	-0115				

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0163							
0010	-0162							
0020	-0144							
0030	-0145							
0050	-0145							
0075	-0120							
0100	-0115							

C-REF-NO 344	YR 1961	DEPTH 121	WAVES 1	X0	AIR T -03.3	VIS
CONS. NO 035	MONTH 9	MXSAMPD 01	WAVES 2	X0	WET B -04.4	STN
LAT 75-046N	DAY 03	NO.DPTH 6	WNC-DIR 040		WW-CODE 02	
LON 102-310W	HR 15.5	W-COLOR	WND-FCE 01		CLD-TPE 5	
MARSD SQ 263	C/I 1813	W-TRNSP	BARO 1013.		CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
155	0000	-0080				
155	0010	-0070				
155	0020	-0078				
155	0030	-0119				
155	0050	-0116				
155	0100	-0098				

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0080							
0010	-0070							
0020	-0078							
0030	-0119							
0050	-0116							
0075	-0144 H							
0100	-0098							

C-REF-NO 344	YR 1961	DEPTH 112	WAVES 1 X1	AIR T -03.3	VIS
CONS. NO 036	MONTH 9	MXSAMPD 01	WAVES 2 X0	WET B -04.7	STN
LAT 75-050N	DAY 03	NO.DPTH 6	WND-DIR 040	WW-CODE 02	
LON 101-400W	HR 17.7	W-COLOR	WND-FCE 02	CLD-TPE 5	
MARSD SQ 263	C/I 1813	W-TRNSP	BARO 1012.	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
177	0010	-0084				
177	0020	-0102				
177	0030	-0105				
177	0050	-0105				
177	0075	-0096				
177	0100	-0090				

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0062 C							
0010	-0084							
0020	-0102							
0030	-0105							
0050	-0105							
0075	-0096							
0100	-0090							

C-REF-NO 344	YR 1961	DEPTH 75	WAVES 1 X1	AIR T -00.8	VIS
CONS. NO 037	MONTH 9	MXSAMPD 01	WAVES 2 X0	WET B -02.5	STN
LAT 75-045N	DAY 03	NO.DPTH 6	WND-DIR 040	WW-CODE 02	
LON 100-550W	HR 19.5	W-COLOR	WND-FCE 02	CLD-TPE 5	
MARSD SQ 263	C/I 1813	W-TRNSP	BARO 1012.	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
195	0000	-0104				
195	0010	-0073				
195	0020	-0075				
195	0030	-0082				
195	0050	-0092				
195	0075	-0101				

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0104							
0010	-0073							
0020	-0075							
0030	-0082							
0050	-0092							
0075	-0101							

C-REF-NO 344	YR 1961	DEPTH 146	WAVES 1 X2	AIR T -02.8	VIS
CONS. NO 038	MONTH 9	MXSAMPD 01	WAVES 2 X0	WET 8	STN
LAT 75-250N	DAY 09	NO.DPTH 7	WND-DIR 350	WW-CODE 71	
LON 92-350W	HR 12.5	W-COLOR	WND-FCE 02	CLD-TPE 5	
MARSD SQ 262	C/I 1813	W-TRNSP	BARO 1017.	CLD-AMT 8	HW

O B S E R V E D

	GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
		125 0000		32371			
2		125 0010	-0075	32875		2645	14430
		125 0020	-0109	33024		2658	14418
		125 0030	-0114	33076		2662	14418
		125 0050	-0116	33120		2666	14421
		125 0075	-0110	33150		2668	14429
		125 0100	-0116	33179		2670	14430

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000		32371						
0010	-0075	32875		2645	14430	0018	00001	1592
0020	-0109	33024		2658	14418	0033	00003	1467
0030	-0114	33076		2662	14418	0048	00007	1425
0050	-0116	33120		2666	14421	0076	00018	1389
0075	-0110	33150		2668	14429	0111	00041	1366
0100	-0116	33179		2670	14430	0145	00071	1341

C-REF-NO 344	YR 1961	DEPTH 176	WAVES 1	X2	AIR T -01.7	VIS
CONS. NO 039	MONTH 9	MXSAMPD 01	WAVES 2	X0	WET B -02.7	STN
LAT 75-240N	DAY 09	NO.DPTH 8	WND-DIR 350	WW-CODE 02		
LON 93-C20W	HR 13.8	W-COLOR	WND-FCE 03	CLD-TPE 5		
MARSD SQ 262	C/I 1813	W-TRNSP	BARO 1017.	CLD-AMT 8	HW	

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
138	0000	-0058	32656		2626	14434
138	0010	-0055	32657		2626	14437
138	0020	-0055	32710		2630	14439
138	0030	-0046	33061		2658	14450
138	0050	-0061	33132		2665	14447
138	0075	-0091	33178		2670	14438
138	0100	-0094	33202		2672	14441
138	0150	-0092	33262		2676	14451

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0058	32656		2626	14434	0000	00000	1766
0010	-0055	32657		2626	14437	0018	00001	1766
0020	-0055	32710		2630	14439	0035	00004	1725
0030	-0046	33061		2658	14450	0051	00008	1460
0050	-0061	33132		2665	14447	0080	00019	1399
0075	-0091	33178		2670	14438	0115	00042	1351
0100	-0094	33202		2672	14441	0149	00072	1330
0125	-0102 B	33238		2675	14442	0182	00110	1299
0150	-0092	33262		2676	14451	0214	00156	1283

C-REF-NO 344	YR 1961	DEPTH 272	WAVES 1	X2	AIR T -01.3	VIS
CONS. NO 040	MONTH 9	MXSAMPD 01	WAVES 2	X0	WET B -01.4	STN
LAT 75-230N	DAY 09	NO.DPTH 8	WND-DIR 350	WW-CODE 02		
LON 93-260W	HR 15.7	W-COLOR	WND-FCE 03	CLD-TPE 5		
MARSD SQ 262	C/I 1813	W-TRNSP	BARO 1018.	CLD-AMT 8	HW	

O B S E R V E D

	GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
	157	0000	-0073	32127		2584	14419
	157	0010	-0124	32546		2620	14403
	157	0020	-0119	32754		2636	14410
2	157	0030	-0060	32925		2648	14441
	157	0049	-0066	33031		2657	14443
	157	0074	-0080	33134		2666	14442
3	157	0098	-0068	32853		2643	14448
	157	0148	-0066	33253		2675	14463

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0073	32127		2584	14419	0000	00000	2167
0010	-0124	32546		2620	14403	0020	00001	1830
0020	-0119	32754		2636	14410	0038	00004	1671
0030	-0060	32925		2648	14441	0054	00008	1558
0050	-0067	33039		2658	14443	0084	00020	1467
0075	-0080	33123		2665	14442	0121	00043	1397
0100	-0076 C	3303 I		2657	14447	0157	00076	1466
0125	-0073 B	3312 I		2664	14454	0193	00117	1399
*0150	-0065	3327 C		2676	14463	0227	00165	1289

C-REF-NO 344 YR 1961 DEPTH 117 WAVES 1 X3 AIR T -04.9 VIS
 CONS. NO 041 MONTH 9 MXSAMPD 01 WAVES 2 X0 WET B -05.1 STN
 LAT 72-080N DAY 10 NO.DPTH 7 WND-DIR 030 WW-CODE 02
 LON 93-400W HR 13.6 W-COLOR WND-FCE 05 CLD-TPE 5
 MARSD SQ 262 C/I 1813 W-TRNSP BARO 1022. CLD-AMT 7 HW

O B S E R V E D

	GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
	136	0000	0018	30562		2455	14440
	136	0009	0018	30573		2455	14441
	136	0019	0022	30734		2468	14447
	136	0028	0027	30785		2472	14451
2	136	0047	0020	31093		2497	14456
	136	0071	-0108	31960		2572	14412
	136	0094	-0152	32535		2619	14403

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0018	30562		2455	14440	0000	00000	3399
0010	0018	30588		2457	14442	0034	00002	3378
0020	0023	30740		2469	14448	0067	00007	3263
0030	0029	30803		2474	14453	0100	00015	3217
0050	0005 B	3119 D		2506	14451	0162	0004C	2907
0075	-0087 I	3195 I		2570	14423	0227	00081	2294

C-REF-NO 344	YR 1961	DEPTH 124	WAVES 1 X3	AIR T -05.0	VIS
CONS. NO 042	MONTH 9	MXSAMPD 01	WAVES 2 X0	WET B -05.4	STN
LAT 72-000N	DAY 10	NO.DPTH 7	WND-DIR 030	WW-CODE 02	
LON 93-400W	HR 14.9	W-COLOR	WND-FCE 05	CLD-TPE 5	
MARSD SQ 262	C/I 1813	W-TRNSP	BARO 1022.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
149	0000	0036	30598		2457	14448
149	0009	0018	30597		2457	14442
149	0018	0026	30716		2467	14448
149	0027	0032	31069		2495	14458
149	0045	-0064	31761		2554	14426
149	0068	-0154	32306		2601	14395
149	0091	-0161	32614		2626	14400

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0036	30598		2457	14448	0000	00000	3379
0010	0018	30601		2458	14442	0034	00002	3368
0020	0029	3079 B		2472	14451	0067	00007	3232
0030	0020 B	3119 B		2505	14454	0098	00015	2915
0050	-0089	31906		2567	14417	0151	00036	2328
0075	-0157 B	3245 C		2612	14396	0204	00069	1892

C-REF-NO 344	YR 1961	DEPTH 99	WAVES 1	X4	AIR T -02.9	VIS
CONS. NO 043	MONTH 9	MXSAMPD 01	WAVES 2	X0	WET B -03.7	STN
LAT 71-53CN	DAY 10	NO.DPTH 6	WND-DIR 020	WW-CODE 02		
LON 93-400W	HR 16.0	W-COLOR	WND-FCE 05	CLD-TPE 5		
MARSD SQ 262	C/I 1813	W-TRNSP	BARO 1022.	CLD-AMT 8	HW	

O B S E R V E D

	GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
	160	0000	0022	30538		2453	14441
	160	0010	0020	30585		2456	14443
2	160	0020	0028	30623		2459	14448
	160	0030	0042	30820		2474	14459
	160	0050	-0050	31132		2503	14424
	160	0075	-0142	32153		2588	14399

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0022	30538		2453	14441	0000	00000	3419
0010	0020	30585		2456	14443	0034	00002	3382
0020	0028	30623		2459	14448	0068	00007	3355
0030	0042	30820		2474	14459	0101	00015	3210
0050	-0050	31132		2503	14424	0163	00040	2934
0075	-0142	32153		2588	14399	0226	00080	2122

C-REF-NO 344	YR 1961	DEPTH	99	WAVES 1	X4	AIR T -03.8	VIS
CONS. NO 044	MONTH 9	MXSAMPD	01	WAVES 2	X0	WET B -03.9	STN
LAT 71-47CN	DAY 10	NO.DPTH	6	WND-DIR	020	WW-CODE C2	
LON 93-250W	HR 17.4	W-COLOR		WND-FCE	04	CLD-TPE 5	
MARSD SQ 262	C/I 1813	W-TRNSP		BARO 1022.		CLD-AMT 8	HW

O B S E R V E D

	GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
2	174	0000	0028	30659		2462	14446
	174	0009	0028	30662		2462	14447
	174	0018	0054	30850		2476	14463
	174	0027	0022	30648		2461	14447
1	174	0045	-0051	31086		2499	14422
	174	0068	-0131	32087		2583	14403

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0028	30659		2462	14446	0000	00000	3329
0010	0032	3069 C		2464	14449	0033	00002	3308
0020	0050	3081 E		2473	14461	0066	00007	3222
0030	0010	3067 E		2464	14442	0099	00015	3310
0050	-0066 B	3111 I		2502	14417	0162	00041	2946

C-REF-NO 344	YR 1961	DEPTH 99	WAVES 1	X4	AIR T -03.1	VIS
CONS. NO 045	MONTH 9	MXSAMPD 01	WAVES 2	X0	WET B -03.3	STN
LAT 71-49CN	DAY 10	NO.DPTH 6	WND-DIR 020	WW-CODE 02		
LON 92-370W	HR 19.1	W-COLOR	WND-FCE 04	CLD-TPE 5		
MARSD SQ 262	C/I 1813	W-TRNSP	BARO 1021.	CLD-AMT 8	HW	

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
191	0000	0030	30957		2486	14451
191	0009	0030	30976		2487	14452
191	0019	0034	30990		2488	14456
191	0028	0027	31001		2489	14454
191	0047	-0078	31282		2516	14413
191	0071	-0152	32392		2608	14397

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0030	30957		2486	14451	0000	00000	3102
0010	0031	30978		2487	14453	0031	00002	3086
0020	0034	30989		2488	14456	0062	00006	3078
0030	0018 B	31010		2491	14451	0093	00014	3054
0050	-0061 I	3141 E		2526	14423	0151	00038	2719

C-REF-NO 344 YR 1961 DEPTH 229 WAVES 1 X4 AIR T -03.8 VIS
 CONS. NO C46 MONTH 9 MXSAMPD 02 WAVES 2 X0 WET B -03.9 STN
 LAT 71-51CN DAY 10 NO.DPTH 8 WND-DIR 020 WW-CODE 03
 LON 91-50CW HR 20.8 W-COLOR WND-FCE 04 CLD-TPE 5
 MARSD SQ 262 C/I 1813 W-TRNSP BARO 1021. CLD-AMT 7 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
208	0000	0018	31167		2503	14448
208	0009	0015	31168		2503	14448
208	0018	-0095	31849		2562	14408
208	0027	-0150	32081		2583	14387
208	0045	-0162	32239		2596	14386
208	0068	-0159	32418		2610	14394
208	0091	-0154	32595		2624	14403
208	0181	-0108	33485		2695	14452

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0018	31167		2503	14448	0000	00000	2936
0010	0004 B	3124 E		2510	14444	0029	00001	2875
0020	-0111	3192 C		2569	14402	0055	00005	2310
0030	-0157 B	3212 B		2586	14385	0078	00011	2146
0050	-0162	32279		2599	14388	0120	00028	2023
0075	-0158	32471		2614	14397	0169	00059	1874
0100	-0151	3268 B		2631	14407	0214	00100	1713
0125	-0141	3291 B		2649	14419	0255	00147	1538
*0150	-0128	33155		2669	14432	0291	00198	1352
*0175	-0112	33419		2690	14448	0323	00250	1154

C-REF-NO 344	YR 1961	DEPTH 304	WAVES 1 X3	AIR T -02.7	VIS
CONS. NO 047	MONTH 9	MXSAMPD 02	WAVES 2 X0	WET B -04.1	STN
LAT 71-520N	DAY 10	NO.DPTH 8	WND-DIR 020	WW-CODE 03	
LON 91-030W	HR 22.7	W-COLOR	WND-FCE 04	CLD-TPE 8	
MARSD SQ 262	C/I 1813	W-TRNSP	BARO 1021.	CLD-AMT 6	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
227	0000	-0004	31387		2522	14441
227	0010	-0023	31383		2522	14434
227	0019	-0046	31623		2542	14428
227	0029	-0142	32109		2585	14391
227	0048	-0158	32287		2599	14389
227	0072	-0151	32439		2612	14399
227	0097	-0152	32653		2629	14405
227	0193	-0110	33656		2709	14455

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0004	31387		2522	14441	0000	00000	2759
0010	-0023	31383		2522	14434	0028	00001	2754
0020	-0055	3167 B		2547	14424	0054	00005	2520
0030	-0146	3213 B		2586	14390	0078	00011	2142
0050	-0158	32300		2600	14390	0119	00028	2007
0075	-0151	32463		2613	14400	0168	00060	1882
0100	-0147 B	3267 B		2630	14409	0214	00100	1725
0125	-0139 B	3289 C		2648	14420	0255	00147	1551
*0150	-0130 B	3315 B		2668	14432	0292	00199	1356
*0175	-0119	33433		2691	14445	0323	00251	1141
*0200	-0106	33747		2716	14459	0349	00300	0905

C-REF-NO 344	YR 1961	DEPTH 80	WAVES 1 X4	AIR T -02.0	VIS
CONS. NO 048	MONTH 9	MXSAMPD 00	WAVES 2 X0	WET B -03.6	STN
LAT 71-540N	DAY 11	NO.DPTH 5	WND-DIR 020	WW-CODE 03	
LON 90-170W	HR 00.8	W-COLOR	WND-FCE 05	CLD-TPE 5	
MARSD SQ 262	C/I 1813	W-TRNSP	BARO 1021.	CLD-AMT 6	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
008	0000	-0055	31563		2538	14420
008	0010	-0070	31877		2564	14419
008	0019	-0078	31919		2567	14417
008	0029	-0082	31934		2569	14417
008	0049	-0103	31977		2573	14411

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0055	31563		2538	14420	0000	00000	2605
0010	-0070	31877		2564	14419	0025	00001	2359
0020	-0078	31921		2568	14417	0049	00005	2322
0030	-0085	3195 B		2570	14416	0072	00011	2300
0050	-0104	31978		2573	14411	0118	00030	2269

C-REF-NO 344	YR 1961	DEPTH 60	WAVES 1 X4	AIR T -01.1	VIS
CONS. NO 049	MONTH 9	MXSAMPD 00	WAVES 2 42	WET B -01.7	STN
LAT 71-040N	DAY 11	NO.DPTH 5	WND-DIR 020	WW-CODE C2	
LON 90-000W	HR 06.5	W-COLOR	WND-FCE 06	CLD-TPE 5	
MARSD SQ 262	C/I 1813	W-TRNSP	BARO 1020.	CLD-AMT 2	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
065	0000	0020	29927		2403	14432
065	0008	0032	29926		2403	14439
065	0016	0044	30244		2428	14450
065	0025	-0038	31075		2498	14425
065	0041	-0148	32031		2578	14389

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0020	29927		2403	14432	0000	00000	3886
0010	0039 B	29972		2406	14443	0039	00002	3858
0020	0013 C	3060 G		2458	14441	0075	00007	3370
0030	-0044 H	3124 I		2512	14425	0107	00015	2853

C-REF-NO 344	YR 1961	DEPTH 84	WAVES 1 X4	AIR T -00.8	VIS
CONS. NO 050	MONTH 9	MXSAMPD 01	WAVES 2 42	WET B -01.9	STN
LAT 70-56CN	DAY 11	NO.DPTH 5	WND-DIR 020	WW-CODE 03	
LON 90-400W	HR 09.1	W-COLOR	WND-FCE 06	CLD-TPE 5	
MARSD SQ 262	C/I 1813	W-TRNSP	BARO 1020.	CLD-AMT 8	HW

O B S E R V E D

	GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
	C91	0000	0014	30024		2412	14430
	C91	0008	0013	30020		2411	14431
1	091	0015	-0025	30614		2460	14423
1	091	0023	-0102	31595		2542	14402
1	091	0057	-0158	32323		2602	14391

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0014	30024		2412	14430	0000	00000	3810
0010	0005	3015 C		2422	14430	0038	00002	3710
0020	-0072	3123 F		2511	14410	0071	00007	2857
0030	-0114 H	3183 I		2561	14401	0097	00013	2382
0050	-0158 D	3238 I		2607	14391	0141	00031	1948

C-REF-NO 344	YR 1961	DEPTH 181	WAVES 1	X6	AIR T -01.1	VIS
CONS. NO 051	MONTH 9	MXSAMPD 02	WAVES 2	42	WET B -02.5	STM
LAT 70-480N	DAY 11	NO.DPTH 8	WND-DIR		WW-CODE 02	
LON 91-180W	HR 11.3	W-COLOR	WND-FCE 07		CLD-TPE 5	
MARSD SQ 262	C/I 1813	W-TRNSP	BARO 1021.		CLD-AMT 8	HW

O B S E R V E D

	GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
	113	0000	0003	29970		2408	14425
	113	0008	0008	29972		2408	14428
	113	0018	0044	30155		2421	14449
	113	0027	0042	30738		2468	14458
	113	0045	-0126	31847		2563	14398
	113	0068	-0160	32274		2598	14392
	113	0091	-0163	32466		2614	14397
1	113	0181	-0150	32805		2641	14422

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0003	29970		2408	14425	0000	00000	3847
0010	0015	2998 B		2408	14432	0039	00002	3842
0020	0047	3027 C		2430	14452	0076	00008	3635
0030	0017 D	3095 D		2486	14450	0110	00016	3101
0050	-0143 C	3200 F		2576	14393	0164	00037	2243
0075	-0163	3235 B		2604	14392	0217	00071	1968
0100	-0177 D	3262 I		2627	14394	0264	00113	1753
0125	-0182 D	3280 I		2641	14398	0306	00161	1613
*0150	-0175 C	3287 H		2647	14406	0346	00218	1559
*0175	-0156	3283 B		2643	14419	0386	00284	1591

C-REF-NO 344	YR 1961	DEPTH 96	WAVES 1	X6	AIR T -00.9	VIS
CONS. NO 052	MONTH 9	MXSAMPD 01	WAVES 2	42	WET B -02.2	STN
LAT 70-500N	DAY 11	NO.DPTH 7	WND-DIR		WW-CODE 02	
LON 91-580W	HR 13.8	W-COLOR	WND-FCE 06		CLD-TPE 6	
MARSD SQ 262	C/I 1813	W-TRNSP	BARO 1022.		CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
138	0000	0031	30014		2410	14438
138	0008	0028	30016		2410	14438
138	0017	0063	30788		2471	14466
138	0025	-0006	31258		2512	14442
138	0042	-0124				
138	0063	-0150	32179		2590	14394
138	0084	-0156	32552		2621	14400

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0031	30014		2410	14438	0000	00000	3824
0010	0039 B	3016 H		2422	14446	0038	00002	3712
0020	0042 B	30982		2487	14460	0072	00007	3087
0030	-0047	3145 I		2529	14427	0101	00014	2692
0050	-0143 B	3200 I		2576	14393	0151	00034	2239
0075	-0170 C	3251 I		2617	14391	0202	00066	1843

C-REF-NO 344	YR 1961	DEPTH 198	WAVES 1	X6	AIR T -00.6	VIS
CONS. NO 053	MONTH 9	MXSAMPD 02	WAVES 2	82	WET B -01.8	STN
LAT 70-202N	DAY 11	NO.DPTH 8	WND-DIR		WW-CODE 03	
LON 91-220W	HR 18.0	W-COLOR	WND-FCE 07		CLD-TPE 6	
MARSD SQ 262	C/I 1813	W-TRNSP	BARO 1021.		CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
180	0000	-0008	30010		2411	14420
180	0008	-0014	30039		2414	14419
180	0016	-0052	30335		2439	14407
180	0026	-0061	30622		2462	14408
180	0041	-0076	31058		2498	14410
180	0061	-0102	31750		2555	14410
180	0082	-0131	32300		2600	14408
180	0164	-0148	32820		2642	14421

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0008	30010		2411	14420	0000	00000	3812
0010	-0023	3010 C		2419	14416	0038	00002	3735
0020	-0058	30455		2449	14406	0074	00007	3453
0030	-0065	30734		2471	14409	0108	00016	3236
0050	-0087	3137 C		2524	14410	0168	00040	2738
0075	-0122	32136		2586	14409	0229	00078	2140
0100	-0141 B	32642		2628	14411	0278	00122	1745
0125	-0152 B	32903		2649	14414	0319	00169	1540
*0150	-0152	32918		2650	14418	0358	00224	1526

C-REF-NO 344	YR 1961	DEPTH 146	WAVES 1 X6	AIR T -00.1	VIS
CONS. NO 054	MONTH 9	MXSAMPD 00	WAVES 2 82	WET B -01.7	STN
LAT 70-195N	DAY 11	NO.DPTH 5	WND-DIR	WW-CODE 03	
LON 90-400W	HR 19.5	W-COLOR	WND-FCE 07	CLD-TPE 6	
MARSD SQ 262	C/I 1813	W-TRNSP	BARO 1021.	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
195	0000	0018	30199		2425	14435
195	0007	0024	30239		2428	14439
195	0014	0012	30394		2441	14437
195	0021	0007	30346		2438	14435
195	0035	-0023	30491		2450	14425

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0018	30199		2425	14435	0000	00000	3677
0010	0020	3031 C		2434	14439	0037	00002	3591
0020	0008	3036 B		2439	14435	0072	00007	3551
0030	-0013	3048 G		2449	14429	0108	00016	3451

C-REF-NO 344	YR 1961	DEPTH 148	WAVES 1 X6	AIR T -00.7	VIS
CONS. NO 055	MONTH 9	MXSAMPD 01	WAVES 2 82	WET B -01.8	STN
LAT 70-190N	DAY 11	NO.DPTH 7	WND-DIR	WW-CODE 03	
LON 90-000W	HR 21.4	W-COLOR	WND-FCE 07	CLD-TPE 6	
MARSD SQ 262	C/I 1813	W-TRNSP	BARO 1021.	CLD-AMT 6	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
214	0000	-0030	29941		2406	14409
214	0010	-0038	29938		2406	14407
214	0020	-0025	30692		2467	14425
214	0030	-0084	31506		2534	14410
214	0049	-0132	31947		2571	14397
214	0073	-0153	32319		2602	14396
214	0098	-0154	32583		2623	14404

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0030	29941		2406	14409	0000	00000	3858
0010	-0038	29938		2406	14407	0039	00002	3857
0020	-0025	30692		2467	14425	0075	00007	3282
0030	-0084	31506		2534	14410	0104	00015	2638
0050	-0134	31966		2573	14397	0154	00035	2270
0075	-0158 B	3236 C		2605	14395	0207	00068	1959
0100	-0152	32596		2624	14405	0254	00110	1778

C-REF-NO 344	YR 1961	DEPTH 139	WAVES 1 X6	AIR T -00.6	VIS
CONS. NO C56	MONTH 9	MXSAMPD 01	WAVES 2 42	WET B -01.7	STN
LAT 70-180N	DAY 11	NO.DPTH 7	WND-DIR	WW-CODE 03	
LON 89-150W	HR 23.4	W-COLOR	WND-FCE 06	CLD-TPE 8	
MARSD SQ 261	C/I 1813	W-TRNSP	BARO 1020.	CLD-AMT 1	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
234	0000	-0044	30775		2474	14414
234	0009	-0052	30797		2476	14412
234	0018	-0056	30975		2491	14414
234	0027	-0110	31514		2536	14398
234	0045	-0160	32011		2577	14384
234	0068	-0160	32226		2594	14391
234	0091	-0160	32411		2609	14397

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0044	30775		2474	14414	0000	00000	3213
0010	-0051	30804		2477	14413	0032	00002	3188
0020	-0067	3109 D		2500	14411	0063	00006	2965
0030	-0123	3163 C		2546	14394	0091	00013	2529
0050	-0163	3208 C		2583	14384	0138	00032	2176
0075	-0171 C	3236 I		2605	14388	0190	00065	1959

C-REF-NO 344	YR 1961	DEPTH 144	WAVES 1	X4	AIR T -00.1	VIS
CONS. NO 057	MONTH 9	MXSAMPD 01	WAVES 2	X0	WET B -01.4	STN
LAT 70-180N	DAY 12	NO.DPTH 7	WND-DIR		WW-CODE 03	
LON 88-300W	HR 01.1	W-COLOR	WND-FCE	04	CLD-TPE	
MARSD SQ 261	C/I 1813	W-TRNSP	BARO 1020.		CLD-AMT 0	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
011	0000	-0086	30512		2454	14391
011	0009	-0091	30528		2456	14390
011	0019	-0074	30900		2485	14405
011	0028	-0102	31499		2534	14401
011	0046	-0142	31888		2567	14391
011	0070	-0155	32108		2585	14392
011	0092	-0154	32258		2597	14398

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0086	30512		2454	14391	0000	00000	3403
0010	-0089	30550		2457	14391	0034	00002	3373
0020	-0076	3097 B		2491	14405	0066	00007	3055
0030	-0108	3157 D		2540	14400	0095	00014	2579
0050	-0146	3194 B		2571	14390	0144	00034	2288
0075	-0161 B	3219 F		2591	14391	0199	00069	2090

C-REF-NO 344	YR 1961	DEPTH 143	WAVES 1	X4	AIR T -00.8	VIS
CONS. NO 058	MONTH 9	MXSAMPD 01	WAVES 2	82	WET B -01.7	STN
LAT 70-000N	DAY 12	NO.DPTH 7	WND-DIR		WW-CODE 02	
LON 88-400W	HR 03.6	W-COLOR	WND-FCE	05	CLD-TPE	
MARSD SQ 261	C/I 1813	W-TRNSP	BARO 1020.		CLD-AMT 0	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
C36	0000	-0048	30743		2472	14412
C36	0009	-0056	30750		2472	14409
C36	0018	-0052	30803		2477	14413
C36	0028	-0074	31106		2502	14409
C36	0046	-0136	31801		2560	14393
C36	0069	-0158	32246		2596	14392
C36	0092	-0155	32357		2605	14399

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0048	30743		2472	14412	0000	00000	3237
0010	-0055	30750		2472	14410	0032	00002	3229
0020	-0055	3085 B		2481	14413	0065	00007	3150
0030	-0081	3119 B		2508	14407	0095	00014	2884
0050	-0143	31908		2568	14391	0147	00035	2312
0075	-0166 B	3233 D		2603	14391	0201	00069	1978

C-REF-NO 344	YR 1961	DEPTH 113	WAVES 1	X6	AIR T -01.1	VIS
CONS. NO 059	MONTH 9	MXSAMPD 01	WAVES 2	X0	WET B -01.7	STM
LAT 69-410N	DAY 12	NO.DPTH 5	WND-DIR		WW-CODE 02	
LON 88-520W	HR 06.1	W-COLOR	WND-FCE 05		CLD-TPE 5	
MARSD SQ 225	C/I 1813	W-TRNSP	BARO 1020.		CLD-AMT 1	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
061	0000	-0079	29987		2412	14387
061	0019	-0082	30586		2460	14397
061	0028	-0080	30724		2471	14401
061	0047	-0163				
061	0071	-0166	31845		2564	14383

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0079	29987		2412	14387	0000	00000	3809
0010	-0069 B	3028 E		2435	14397	0037	00002	3584
0020	-0081	30603		2461	14397	0072	00007	3333
0030	-0088 B	3084 I		2480	14399	0104	00015	3150
0050	-0135 I	3135 I		2523	14387	0164	00039	2742
0075		3193 C						

C-REF-NO 344	YR 1961	DEPTH 80	WAVES 1	X4	AIR T -01.3	VIS
CONS. NO 060	MONTH 9	MXSAMPD 00	WAVES 2	X0	WET B -02.5	STM
LAT 69-220N	DAY 12	NO.DPTH 5	WND-DIR		WW-CODE 02	
LON 89-040W	HR 09.2	W-COLOR	WND-FCE 04		CLD-TPE 5	
MARSD SQ 225	C/I 1813	W-TRNSP	BARO 1020.		CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
C92	0000	-0121	29961		2410	14366
092	0010	-0082	29961		2410	14386
C92	0020	-0087	29982		2411	14386
C92	0030	-0142	30530		2457	14369
092	0049	-0144	31028		2497	14378

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT. EN	SWA
0000	-0121	29961		2410	14366	0000	00000	1820
0010	-0082	29961		2410	14386	0038	00002	1823
0020	-0087	29982		2411	14386	0077	00008	1809
0030	-0142	30530		2457	14369	0113	00017	1874
0050	-0145	3107 C		2501	14379	0177	00043	2955

C-REF-NO 344	YR 1961	DEPTH 234	WAVES 1	X0	AIR T -01.2	VIS
CONS. NO 061	MONTH 9	MXSAMPD 02	WAVES 2	X0	WET B -01.7	STN
LAT 69-512N	DAY 12	NO.DPTH 8	WND-DIR 010	WW-CODE 02		
LON 86-430W	HR 17.2	W-COLOR	WND-FCE 03	CLD-TPE 5		
MARSD SQ 225	C/I 1813	W-TRNSP	BARO 1018.	CLD-AMT 8	HW	

O B S E R V E D

	GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
	172	0000	-0142	26689		2146	14311
	172	0010	-0154	29664		2387	14348
	172	0020	-0164	31403		2528	14369
3	172	0030	-0136	28858		2322	14349
	172	0050	-0149	31796		2559	14387
	172	0075	-0131	31918		2569	14401
	172	0100	-0162	32094		2584	14393
	172	0200	-0152	32389		2607	14419

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0142	26689		2146	14311	0000	00000	6345
0010	-0154	29664		2387	14348	0052	00002	4042
0020	-0164	31403		2528	14369	0086	00007	2699
0030	-0136	28858		2322	14349	0123	00017	4664
0050	-0149	31796		2559	14387	0194	00044	2397
0075	-0131	31918		2569	14401	0253	00081	2305
0100	-0162	32094		2584	14393	0309	00132	2160
0125	-0141 H	3217 F		2589	14409	0363	00193	2105
0150	-0142 G	3226 E		2597	14413	0415	00267	2033
*0175	-0146 D	3233 C		2603	14417	0466	00351	1974
0200	-0152	32389		2607	14419	0515	00445	1928

C-REF-NO 344	YR 1961	DEPTH 230	WAVES 1 X0	AIR T -02.7	VIS
CONS. NO 062	MONTH 9	MXSAMPD 02	WAVES 2 X0	WET B -03.1	STN
LAT 69-540N	DAY 12	NO.DPTH 8	WND-DIR 280	WW-CODE 02	
LON 85-40CW	HR 21.0	W-COLOR	WND-FCE 03	CLD-TPE 5	
MARSD SQ 225	C/I 1813	W-TRNSP	BARO 1019.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
210	0000	-0148	28678		2307	14336
210	0010	-0148	29843		2401	14354
210	0020	-0158	30673		2469	14362
210	0030	-0155	31203		2512	14373
210	0050	-0156	31676		2550	14382
210	0074	-0160	31828		2562	14386
210	0099	-0158	32214		2593	14397
210	0198	-0156	32367		2606	14416

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0148	28678		2307	14336	0000	00000	4806
0010	-0148	29843		2401	14354	0044	00002	3905
0020	-0158	30673		2469	14362	0080	00007	3262
0030	-0155	31203		2512	14373	0111	00015	2854
0050	-0156	31676		2550	14382	0164	00037	2488
0075	-0160	31843		2563	14387	0225	00076	2356
0100	-0160	3210 I		2584	14394	0282	00126	2157
0125	-0161 B	3224 I		2595	14400	0335	00187	2048
*0150	-0160	3233 I		2603	14406	0386	00258	1977
*0175	-0159	3237 I		2606	14411	0435	00341	1942
*0200	-0156	3237 B		2606	14417	0484	00435	1945

C-REF-NO 344	YR 1961	DEPTH 84	WAVES 1 X2	AIR T -01.4	VIS
CONS. NO 063	MONTH 9	MXSAMPD 01	WAVES 2 X0	WET B -01.8	STN
LAT 69-550N	DAY 12	NO.DPTH 7	WND-DIR 270	WW-CODE 02	
LON 84-20CW	HR 23.8	W-COLOR	WND-FCE 04	CLD-TPE 5	
MARSD SQ 225	C/I 1813	W-TRNSP	BARO 1015.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
238	0000	-0117	30095		2421	14370
238	0008	-0118	30157		2426	14372
238	0017	-0127	30875		2484	14379
238	0025	-0125	31220		2512	14386
238	0042	-0099	31504		2535	14405
238	0063	-0056	31661		2546	14431
238	0084	-0066	31703		2550	14430

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0117	30095		2421	14370	0000	00000	3717
0010	-0120	3030 H		2438	14373	0037	00002	3556
0020	-0127	3103 B		2497	14382	0069	00007	2995
0030	-0119	3134 D		2522	14391	0098	00014	2754
0050	-0080 B	31583		2540	14416	0152	00036	2578
0075	-0063 B	3171 B		2550	14430	0216	00077	2483

C-REF-NO 344	YR 1961	DEPTH 161	WAVES 1 X1	AIR T -03.8	VIS
CONS. NO 064	MONTH 9	MXSAMPD 01	WAVES 2 X0	WET B -04.5	STN
LAT 69-50CN	DAY 13	NO.DPTH 7	WND-DIR 140	WW-CODE 03	
LON 83-000W	HR 12.4	W-COLOR	WND-FCE 03	CLD-TPE 5	
MARSD SQ 225	C/I 1813	W-TRNSP	BARO 1007.	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
124	0000	-0085	31083		2500	14399
124	0010	-0085	31130		2504	14401
124	0020	-0071	31253		2513	14411
124	0030	-0064	31319		2519	14417
124	0050	-0066	31429		2528	14421
124	0075	-0060	31606		2542	14430
124	0100	-0060	31623		2543	14435

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0085	31083		2500	14399	0000	00000	2965
0010	-0085	31130		2504	14401	0030	00002	2928
0020	-0071	31253		2513	14411	0059	00006	2837
0030	-0064	31319		2519	14417	0087	00013	2787
0050	-0066	31429		2528	14421	0142	00036	2701
0075	-0060	31606		2542	14430	0208	00078	2566
0100	-0060	31623		2543	14435	0273	00136	2551

C-REF-NO 344	YR 1961	DEPTH 132	WAVES 1	X3	AIR T -03.8	VIS
CONS. NO 065	MONTH 9	MXSAMPD 01	WAVES 2	X0	WET B -04.2	STN
LAT 69-390N	DAY 13	NO.DPTH 7	WND-DIR 140	WW-CODE 03		
LON 81-50CW	HR 15.2	W-COLOR	WND-FCE 04	CLD-TPE 5		
MARSD SQ 225	C/I 1813	W-TRNSP	BARO 1005.	CLD-AMT 8	HW	

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
152	0000	0000	31670		2544	14447
152	0010	0006	31673		2544	14451
152	0020	0049	31824		2555	14475
152	0030	0038	31984		2568	14473
152	0050	0010	32177		2585	14467
152	0075	0003	32340		2598	14470
152	0100	-0002	32433		2606	14473

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0000	31670		2544	14447	0000	00000	2544
0010	0006	31673		2544	14451	0026	00001	2543
0020	0049	31824		2555	14475	0051	00005	2447
0030	0038	31984		2568	14473	0075	00011	2319
0050	0010	32177		2585	14467	0120	00030	2158
0075	0003	32340		2598	14470	0172	00063	2029
0100	-0002	32433		2606	14473	0223	00108	1955

C-REF-NO 344	YR 1961	DEPTH 110	WAVES 1 X4	AIR T -02.1	VIS
CONS. NO 066	MONTH 9	MXSAMPD 01	WAVES 2 X0	WET B -02.8	STN
LAT 69-240N	DAY 13	NO.DPTH 6	WND-DIR 140	WW-CODE 02	
LON 81-C15W	HR 18.4	W-COLOR	WND-FCE 05	CLD-TPE 5	
MARSD SQ 225	C/I 1813	W-TRNSP	BARO 1004.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
184	0000	-0014	31456		2528	14437
184	0009	-0004	31456		2527	14443
184	0019	0014	31602		2538	14455
184	0028	0037	31883		2560	14471
184	0047	0027	32179		2584	14474
184	0071	0023	32251		2590	14477

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0014	31456		2528	14437	0000	00000	2702
0010	-0003	31463		2528	14444	0027	00001	2700
0020	0017	31632		2541	14457	0054	00005	2579
0030	0038	31929		2564	14472	0079	00012	2361
0050	0041 E	3224 E		2588	14482	0124	00030	2124

C-REF-NO 344	YR 1961	DEPTH 53	WAVES 1 X4	AIR T -01.8	VIS
CONS. NO 067	MONTH 9	MXSAMPD 00	WAVES 2 X0	WET B -02.8	STN
LAT 69-120N	DAY 13	NO.DPTH 4	WND-DIR 140	WW-CODE 02	
LON 80-170W	HR 20.5	W-COLOR	WND-FCE 06	CLD-TPE 5	
MARSD SQ 225	C/I 1813	W-TRNSP	BARO 1003.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
205	0000	-0026	31383		2522	14431
205	0010	-0031	31383		2523	14430
205	0019	-0030	31390		2523	14432
205	0029	-0028	31439		2527	14435

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0026	31383		2522	14431	0000	00000	2753
0010	-0031	31383		2523	14430	0028	00001	2751
0020	-0031	31398		2524	14432	0055	00006	2739
0030	-0028	31445		2527	14436	0083	00013	2704

C-REF-NO 344	YR 1961	DEPTH 48	WAVES 1	X6	AIR T -00.8	VIS
CONS. NO 068	MONTH 9	MXSAMPD 00	WAVES 2	X0	WET B -01.8	STN
LAT 68-510N	DAY 13	NO.DPTH 4	WND-DIR 140		WW-CODE 02	
LON 80-180W	HR 22.5	W-COLOR	WND-FCE 06		CLD-TPE 5	
MARSD SQ 225	C/I 1813	W-TRNSP	BARO 1003.		CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
225	0000	-0004	31752		2551	14446
225	0010	-0002	31749		2551	14449
225	0019	-0002	31751		2551	14450
225	0029	-0006	31751		2551	14450

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0004	31752		2551	14446	0000	00000	2479
0010	-0002	31749		2551	14449	0025	00001	2482
0020	-0003	31750		2551	14450	0050	00005	2480
0030	-0007	31751		2551	14450	0075	00012	2477

C-REF-NO 344	YR 1961	DEPTH 27	WAVES 1 X6	AIR T -00.6	VIS
CONS. NO 069	MONTH 9	MXSAMPD 00	WAVES 2 X0	WET B -00.6	STN
LAT 68-500N	DAY 14	NO.DPTH 3	WND-DIR 140	WW-CODE 74	
LON 80-550W	HR 01.4	W-COLOR	WND-FCE 06	CLD-TPE 5	
MARSD SQ 225	C/I 1813	W-TRNSP	BARO 1002.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
C14	0000	0081	31936		2562	14487
C14	0010	0073	31932		2562	14435
C14	0020	0074	31933		2562	14487

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0081	31936		2562	14487	0000	00000	2378
0010	0073	31932		2562	14485	0024	00001	2377
0020	0074	31933		2562	14487	0048	00005	2376

GENERAL INFORMATION

<u>Institute:</u>	Division of Oceanographic Research
<u>Observation platform:</u>	CCGS "Labrador"
<u>Vessel's cruising speed:</u>	14 knots
<u>Total number of stations occupied:</u>	125
<u>Anemometer height above sea level:</u>	20 metres
<u>Barometer readings:</u>	Mercury Barometer
<u>Air temperature:</u>	Sling Psychrometer
<u>Wet bulb temperature:</u>	Sling Psychrometer
<u>Surface sea water temperature:</u>	Bucket sample (deck thermometer)

The following Standard Deviations were used to express both measurement and interpolation error estimates:

Temperature	0.03
Salinity	0.003
Oxygen	0.01

C-REF-NO 341	YR 1961	DEPTH 534	WAVES 1 16X2	AIR T 02.3	VIS 1
CONS. NO 001	MONTH 8	MXSAMPD 05	WAVES 2 1626	WET B 02.2	STN
LAT 66-400N	DAY 13	NO.DPTH 13	WND-DIR 160	WW-CODE 46	
LON 60-330W	HR 19.2	W-COLOR	WND-SPD 05	CLD-TPE	
MARSD SQ 223	C/I 1810	W-TRNSP	BARO 1007.	CLD-AMT 9	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
192	0000	0050	31252	925	2509	14464
192	0010	0016	31358	887	2519	14451
192	0020	-0135	32412	896	2609	14397
192	0029	-0150	32610	887	2625	14395
192	0049	-0158	32840	840	2644	14397
192	0073	-0155	33076	792	2663	14406
192	0098	-0146	33250	773	2677	14417
192	0147	-0145		762		
192	0196	-0157	33675	754	2712	14434
192	0245	-0093	33836	744	2723	14474
192	0294	0008	34068	621	2737	14532
192	0394	0059	34305	563	2753	14575
192	0494	0086	34402	554	2760	14605

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0050	31252	925	2509	14464	0000	00000	2885
0010	0016	31358	887	2519	14451	0029	00001	2788
0020	-0135	32412	896	2609	14397	0052	00005	1929
0030	-0151	32625	885	2627	14394	0071	00010	1761
0050	-0158	32851	838	2645	14398	0105	00023	1584
0075	-0154	33092	790	2664	14407	0142	00047	1398
0100	-0146	33261	772	2678	14417	0176	00077	1269
0125	-0143	3339 C	765 B	2689	14425	0206	00112	1166
0150	-0147	3351 D	761	2698	14429	0235	00152	1075
0175	-0156	3361 C	757	2706	14430	0261	00195	0996
0200	-0154	33687	755 B	2713	14436	0285	00242	0933
0225	-0126	3377 B	755 E	2718	14455	0308	00292	0880
0250	-0082	33860	733 C	2724	14480	0329	00344	0826
0300	0014	34089	613 B	2738	14536	0368	00452	0699
0400	0089 F	3434 F	529 I	2754	14590	0431	00676	0556
0500	0083	34400	560 B	2760	14605	0485	00924	0509

C-REF-NO 341 YR 1961 DEPTH 1006 WAVES 1 14X1 AIR T 02.0 VIS. 3
 CONS. NO 002 MONTH 8 MXSAMPD 05 WAVES 2 1482 WET B 01.8 STN
 LAT 66-450N DAY 14 NO.DPTH 13 WND-DIR 140 WW-CODE 40
 LON 59-000W HR 00.2 W-COLOR WND-SPD 04 CLD-TPE
 MARSD SQ 222 C/I 1810 W-TRNSP BARO 1006. CLD-AMT 9 HW

O B S E R V E D

	GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
	002	0000	0115	30615		2454	14485
	002	0010	0102	31512		2527	14493
	002	0020	-0077	33087		2662	14434
	002	0030	-0129	33276		2679	14414
	002	0050	-0156	33450		2694	14407
	002	0075	-0165	33542		2701	14408
	002	0100	-0168	33624		2708	14412
	002	0150	-0162	33704		2714	14424
3	002	0200	-0161	32702		2633	14419
3	002	0250	0091	34508		2768	14569
	002	0300	0154	34301		2747	14602
	002	0400	0145	34425		2757	14617
	002	0500	0107	34454		2762	14617

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0115	30615		2454	14485	0000	00000	3404
0010	0102	31512		2527	14493	0031	00001	2712
0020	-0077	33087		2662	14434	0052	00004	1429
0030	-0129	33276		2679	14414	0065	00008	1267
0050	-0156	33450		2694	14407	0089	00017	1125
0075	-0165	33542		2701	14408	0117	00035	1050
0100	-0168	33624		2708	14412	0142	00058	0985
0125	-0166	3374 I		2717	14419	0166	00085	0896
0150	-0162	33704		2714	14424	0189	00117	0922
0175	-0177 D	3310 I		2665	14413	0218	00167	1382
0200	-0161	32702		2633	14419	0257	00242	1686
0225	-0039 F	3356 I		2698	14492	0291	00317	1078
0250	0091	34508		2768	14569	0310	00362	0429
0300	0154	34301		2747	14602	0337	00439	0632
0400	0145	34425		2757	14616	0395	00648	0535
0500	0107	34454		2762	14617	0448	00886	0486

C-REF-NO 341	YR 1961	DEPTH 544	WAVES 1 28X2	AIR T 01.1	VIS 3
CONS. NO 003	MONTH 8	MXSAMPD 05	WAVES 2 1826	WET B	STN
LAT 56-550N	DAY 14	NO.DPTH 13	WND-DIR 280	WW-CODE 47	
LON 57-000W	HR 06.3	W-COLOR	WND-SPD 03	CLD-TPE	
MARSD SQ 222	C/I 1810	W-TRNSP	BARO 1006.	CLD-AMT 9	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
063	0000	0460	32844		2603	14665
063	0010	0468	32961		2612	14671
063	0020	0527	33553		2652	14705
063	0030	0516	33805		2673	14706
063	0050	0272	33995		2713	14609
063	0075	0256	34209		2731	14609
063	0100	0230	34274		2739	14602
063	0150	0268	34450		2750	14630
063	0200	0315	34590		2757	14660
063	0250	0298	34611		2760	14661
063	0300	0343	34692		2762	14690
063	0400	0299	34670		2764	14687
063	0500	0152	34532		2765	14638

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0460	32844		2603	14665	0000	00000	1983
0010	0468	32961		2612	14671	0020	00001	1904
0020	0527	33553		2652	14705	0037	00004	1524
0030	0516	33805		2673	14706	0051	00007	1324
0050	0272	33995		2713	14609	0074	00016	0946
0075	0256	34209		2731	14609	0096	00030	0772
0100	0230	34274		2739	14602	0114	00046	0704
0125	0241 B	3436 B		2745	14612	0131	00066	0649
0150	0268	34450		2750	14629	0147	00088	0605
0175	0295	34530		2754	14646	0162	00113	0571
0200	0315	34590		2757	14660	0176	00140	0545
0225	0307 B	3460 C		2759	14661	0190	00170	0529
0250	0298	34611		2760	14661	0203	00202	0517
0300	0343	34692		2762	14690	0229	00275	0504
0400	0299	34670		2764	14687	0278	00454	0485
0500	0152	34532		2765	14638	0326	00675	0463

C-REF-NO 341 YR 1961 DEPTH .55 WAVES 1 19X2 AIR T 04.4 VIS 3
 CONS. NO 004 MONTH 8 MXSAMPD 00 WAVES 2 2082 WET B 03.7 STN
 LAT 67-000N DAY 14 NO.DPTH 5 WND-DIR 210 WW-CODE 44
 LON 54-550W HR 11.1 W-COLOR WND-SPD 04 CLD-TPE
 MARSD SQ 222 C/I 1810 W-TRNSP BARO 1008. CLD-AMT .9 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
111	0000	0520	33786	812	2671	14702
111	0010	0519	33762	804	2669	14703
111	0020	0500	33761	773	2672	14697
111	0030	0494	33762	773	2672	14696
111	0040	0485	33773	764	2674	14694

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0520	33786	812	2671	14702	0000	00000	1339
0010	0519	33762	804	2669	14703	0014	00001	1357
0020	0500	33761	773	2672	14697	0027	00003	1338
0030	0494	33762	773	2672	14696	0041	00006	1332

C-REF-NO 341	YR 1961	DEPTH 44	WAVES 1 X2	AIR T 00.9	VIS 6
CONS. NO 005	MONTH 8	MXSAMPD 00	WAVES 2 XX	WET B 00.6	STN
LAT 78-543N	DAY 21	NO.DPTH 5	WND-DIR 290	WW-CODE 71	
LON 75-455W	HR 23.5	W-COLOR	WND-SPD 05	CLD-TPE 0	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 1000.	CLD-AMT 6	HW 11

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
235	0000	002		942		
235	0010	-0026	30977	999	2490	14427
235	0020	-0087	31528	999	2536	14408
235	0030	-0087	31846	999	2562	14414
235	0040	-0097	32055	951	2579	14414

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0020	3028 I	942	2432	14437	0000	00000	3619
0010	-0026	30977	999	2490	14427	0034	00002	3064
0020	-0087	31528	999	2536	14408	0062	00006	2621
0030	-0087	31846	999	2562	14414	0087	00012	2376

C-REF-NO 341	YR 1961	DEPTH	36	WAVES 1	X1	AIR T	00.9	VIS	6
CUNS. NO 006	MONTH 8	MXSAMPD	00	WAVES 2	XX	WET B	00.7	STN	
LAT 78-540N	DAY 22	NO.DPTH	4	WND-DIR	300	WW-CODE	24		
LON 75-455W	HR 16.2	W-COLOR		WND-SPD	02	CLD-TPE	C		
MARSD SQ 260	C/I 1810	W-TRNSP		BARO	1001.	CLD-AMT	5	HW	

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
162	0000	003		999		
162	0010	-0033	31105	942	2500	14425
162	0020	-0086	31636	999	2545	14410
162	0030	-0091	31909	979	2567	14413

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT. EN	SVA
0000	0030		999					
0010	-0033	31105	942	2500	14425	0087	00012	2963
0020	-0086	31636	999	2545	14410	0087	00012	2538
0030	-0091	31909	979	2567	14413	0087	00012	2327

C-REF-NO 341 YR 1961 DEPTH 366 WAVES 1 X2 AIR T -01.4 VIS 2
 CONS. NO 007 MONTH 8 MXSAMPD 03 WAVES 2 XX WET B -01.4 STN
 LAT 78-00N DAY 23 NO.DPTH 11 WND-DIR 360 WW-CODE 44
 LON 73-44W HR 12.3 W-COLOR WND-SPD 05 CLD-TPE
 MARSD SQ 260 C/I 1810 W-TRNSP BARO 1002. CLD-AMT 0 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
123	0000	-013	30258	980	2435	14366
123	0010	-0122	31088	944	2502	14383
123	0020	-0148	31760	870	2556	14382
123	0030	-0151	32226	826	2594	14389
123	0050	-0071	33060	808	2659	14441
123	0075	-0078	33425	781	2689	14447
123	0100	-0115	33565	717	2702	14436
123	0150	-0136	33814	681	2722	14438
123	0200	-0117	33920	663	2730	14457
123	0250	-0077	34072	654	2741	14486
123	0300	-0056	34217	654	2752	14506

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0130	30258	980	2435	14366	0000	00000	3589
0010	-0122	31088	944	2502	14383	0033	00002	2951
0020	-0148	31760	870	2556	14382	0060	00006	2427
0030	-0151	32226	826	2594	14389	0083	00011	2068
0050	-0071	33060	808	2659	14441	0118	00025	1450
0075	-0078	33425	781	2689	14447	0151	00046	1167
0100	-0115	33565	717	2702	14436	0179	00071	1046
0125	-0132	3370 B	690 D	2713	14434	0204	00099	0934
0150	-0136	33814	681	2722	14438	0226	00131	0845
0175	-0130	3387 C	670	2727	14446	0247	00165	0801
0200	-0117	33920	663	2730	14457	0267	00203	0768
0225	-0097	33994	657	2736	14471	0285	00244	0719
0250	-0077	34072	654	2741	14486	0303	00287	0666
0300	-0056	34217	654	2752	14506	0334	00374	0564

C-REF-NO 341	YR 1961	DEPTH 564	WAVES 1 X1	AIR T 00.9	VIS. 8
CONS. NO 008	MONTH 8	MXSAMPD 05	WAVES 2 32XX	WET B 00.4	STN
LAT 77-09N	DAY 23	NO.DPTH 13	WND-DIR 320	WW-CODE 02	
LON 75-45W	HR 19.1	W-COLOR	WND-SPD 03	CLD-TPE 4	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 1002.	CLD-AMT 6	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
191	0000	000	31242	890	2510	14441
191	0010	0106	31931	926	2560	14500
191	0020	-0101	32401	835	2607	14413
191	0030	-0131	32718	790	2634	14405
191	0050	-0104	33241	763	2675	14429
191	0075	-0104	33514	744	2697	14437
191	0100	-0135	33666	726	2710	14428
191	0150	-0130	33872	672	2727	14442
191	0200	-0084	34053	654	2740	14474
191	0250	-0047	34188	636	2749	14501
191	0300	-0037	34272	627	2756	14516
191	0400	-0038	34402	672	2766	14534
191	0500	-0033	34436	672	2769	14553

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0000	31242	890	2510	14441	0000	00000	2871
0010	0106	31931	926	2560	14500	0026	00001	2395
0020	-0101	32401	835	2607	14413	0048	00004	1947
0030	-0131	32718	790	2634	14405	0067	00009	1694
0050	-0104	33241	763	2675	14429	0097	00021	1300
0075	-0104	33514	744	2697	14436	0127	00040	1090
0100	-0135	33666	726	2710	14428	0153	00063	0962
0125	-0141	3378 B	698 C	2720	14431	0176	00090	0872
0150	-0130	33872	672	2727	14442	0197	00119	0803
0175	-0109	33967	661 B	2734	14457	0216	00152	0737
0200	-0084	34053	654	2740	14474	0234	00186	0680
0225	-0063	34127	644	2745	14489	0251	00222	0632
0250	-0047	34188	636	2749	14501	0266	00260	0592
0300	-0037	34272	627	2756	14515	0295	00339	0532
0400	-0038	34402	672	2766	14533	0343	00512	0431
0500	-0033	34436	672	2769	14553	0386	00707	0406

C-REF-NO 341 YR 1961 DEPTH 485 WAVES 1 XO AIR T -01.4 VIS
 CONS. NO 009 MONTH 8 MXSAMPD 04 WAVES 2 20 WET B -02.4 STM
 LAT 74-285N DAY 28 NO.DPTH 12 WND-DIR 360 WW-CODE C1
 LON 115-050W HR 19.0 W-COLOR WND-SPD 02 CLD-TPE 5
 MARSD SQ 264 C/I 1810 W-TRNSP BARO 1021. CLD-AMT 2 HW

O B S E R V E D

	GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
	190	0000	-010	22950	886	1844	14280
	190	0010	-0055	30118	957	2421	14401
	190	0020	-0091	31538	957	2537	14406
	190	0030	-0132	31834	939	2562	14392
	190	0050	-0150	32145	816	2588	14391
	190	0075	-0142	32465	700	2613	14404
5	190	0100	-0135	32902	692	2649	14417
	190	0150	-0083	33967	549	2733	14465
	190	0200	-0024	34490	514	2773	14508
	190	0250	0004	34662	505	2785	14531
	190	0300	0021	34768	514	2793	14549
	190	0400	0033	34840	497	2798	14572

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT. EN
0000	-0100	22950	886	1844	14280	0000	00000
0010	-0055	30118	957	2421	14401	0065	00002
0020	-0091	31538	957	2537	14406	0097	00006
0030	-0132	31834	939	2562	14392	0122	00013
0050	-0150	32145	816	2588	14391	0167	00031
0075	-0142	32465	700	2613	14404	0218	00063
0100	-0135	32902	692	2649	14417	0261	00101
0125	-0113	3345 I	624 I	2692	14440	0295	00140
0150	-0083	33967	549	2733	14465	0318	00172
0175	-0052	3428 C	523 D	2757	14488	0334	00199
0200	-0024	34490	514	2773	14508	0345	00220
0225	-0007	3460 D	507	2781	14521	0354	00238
0250	0004	34662	505	2785	14531	0361	00256
0300	0021	34768	514	2793	14549	0372	00287
0400	0033	34840	497	2798	14572	0389	00346

C-REF-NO 341	YR 1961	DEPTH 485	WAVES 1	X0	AIR T -01.8	VIS 9
CONS. NO 710	MONTH 8	MXSAMPD 03	WAVES 2	20	WET B -02.3	STN
LAT 74-280N	DAY 29	NO.DPTH 11	WND-DIR 320	WW-CODE C1		
LOX 115-050W	HR 14.1	W-COLOR	WND-SPD 03	CLD-TPE 5		
MARSD SQ 264	C/I 1810	W-TRNSP	BARO 1020.	CLD-AMT 1	HW 08	

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
141	0000	-010	21828		1754	14264
141	0010	-0052	30134		2423	14403
141	0020	-0099	31554		2539	14402
141	0030	-0116	31858		2564	14400
141	0050	-0150	32157		2589	14392
141	0075	-0141	32531		2619	14405
141	0100	-0133	32978		2655	14419
141	0150	-0080	34012		2737	14467
141	0200	-0023	34480		2772	14508
141	0250	0004	34666		2786	14532
141	0300	0020	34772		2793	14549

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0100	21828		1754	14264	0000	00000	0122
0010	-0052	30134		2423	14403	0069	00002	3702
0020	-0099	31554		2539	14402	0101	00006	2598
0030	-0116	31858		2564	14400	0126	00013	2359
0050	-0150	32157		2589	14392	0171	00031	2119
0075	-0141	32531		2619	14405	0221	00062	1832
0100	-0133	32978		2655	14419	0262	00099	1489
0125	-0110	3352 I		2698	14442	0295	00136	1081
0150	-0080	34012		2737	14467	0317	00167	0715
0175	-0050	3430 D		2759	14489	0333	00193	0508
0200	-0023	34480		2772	14508	0344	00214	0383
0225	-0007	3460 C		2780	14521	0353	00233	0303
0250	0004	34666		2786	14531	0360	00250	0256
0300	0020	34772		2793	14549	0371	00281	0185

C-REF-NO 341	YR 1961	DEPTH 483	WAVES 1 XC	AIR T -02.8	VIS 9
CONS. NO C11	MONTH 8	MXSAMPD 04	WAVES 2 XC	WET B -02.9	STN
LAT 74-310N	DAY 29	NO.DPTH 13	WND-DIR 34C	WW-CODE C2	
LON 115-330W	HR 18.9	W-COLOR	WND-SPD 08	CLD-TPE 5	
MARSD SQ 264	C/I 1810	W-TRNSP	BARO 1020.	CLD-AMT 2	HW 1.1

O B S E R V E D

CMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
189	0000	-0100	05290	948	0415	14043
189	0010	-0086	27843	948	2239	14355
189	0020	-0095	31722	948	2552	14407
189	0030	-0120	31932	975	2570	14399
189	0050	-0149	32203	780	2592	14393
189	0075	-0140	32588	656	2623	14407
189	0100	-0134	32997	612	2656	14419
189	0150	-0082	33978	567	2734	14466
189	0200	-0024	34481	532	2772	14508
189	0250	0004	34673	514	2786	14532
189	0300	0020	34765	514	2793	14548
189	0400	0033	34834	505	2797	14572
189	0450	0033	34848	497	2799	14580

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT. EN	SVA
000	-0100	05290	948	0415	14043	0000	00000	23226
0010	-0086	27843	948	2239	14355	0143	00004	5458
0020	-0095	31722	948	2552	14406	0182	00008	2470
0030	-0120	31932	975	2570	14399	0206	00014	2301
0050	-0149	32203	780	2592	14393	0251	00032	2084
0075	-0140	32588	656	2623	14407	0299	00063	1788
0100	-0134	32997	612	2656	14419	0340	00099	1475
0125	-0112	3350 I	585 B	2697	14441	0373	00136	1092
0150	-0082	33978	567	2734	14466	0396	00168	0740
0175	-0052	3428 B	548	2757	14488	0412	00194	0523
0200	-0024	34481	532	2772	14508	0423	00216	0382
0225	-0007	3460 C	521	2781	14521	0432	00234	0298
0250	0004	34673	514	2786	14532	0439	00251	0250
0300	0020	34765	514	2793	14548	0450	00282	0190
0400	0033	34834	505	2797	14572	0467	00342	0146

C-REF-NO 341	YR 1961	DEPTH 476	WAVES 1	XO	AIR T -02.1	VIS 9
CONS. NO 312	MONTH 8	MXSAMPD 01	WAVES 2	20	WET B -02.9	STN
LAT 74-285N	DAY 29	NO.DPTH 7	WND-DIR 340	WW-CODE 03		
LON 115-310W	HR 20.9	W-COLOR	WND-SPD 10	CLD-TPE 4		
MARSD SQ 264	C/I 1810	W-TRNSP	BARO 1019.	CLD-AMT 4	HW 02	

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
209	0000	-003	05400		0428	14079
209	0010	-0042	30317		2437	14410
209	0020	-0098	31683		2549	14405
209	0030	-0118	31928		2569	14400
209	0050	-0149	32167		2589	14392
209	0075	-0140	32577		2622	14406
209	0100	-0133	32982		2655	14420

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0030	05400		0428	14079	0000	00000	3096
0010	-0042	30317		2437	14410	0133	00002	3565
0020	-0098	31683		2549	14405	0163	00006	2499
0030	-0118	31928		2569	14400	0187	00012	2304
0050	-0149	32167		2589	14392	0232	00030	2112
0075	-0140	32577		2622	14406	0281	00061	1797
0100	-0133	32982		2655	14419	0322	00098	1486

C-REF-NO 341 YR 1961 DEPTH 474 WAVES 1 XO AIR T -03.2 VIS 9
 CONS. NO 013 MONTH 8 MXSAMPD 01 WAVES 2 20 WET B -03.6 STM
 LAT 74-282N DAY 29 NO.DPTH 7 WND-DIR 340 WW-CODE 03
 LON 115-348W HR 23.1 W-COLOR WND-SPD 12 CLD-TPE 5
 MARSD SQ 264 C/I 1810 W-TRNSP BARO 1019. CLD-AMT 6 HW C4

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
231	0000	-009	05860	948	0462	14056
231	0010	-0072	28308	966	2276	14368
231	0020	-0092	31510	966	2535	14405
231	0030	-0117	31882	961	2566	14400
231	0050	-0150	32153	818	2588	14392
231	0075	-0139	32544	674	2620	14406
231	0100	-0134	32982	621	2655	14419

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0090	05860	948	0462	14056	0000	00000	2760
0010	-0072	28308	966	2276	14368	0139	00003	5102
0020	-0092	31510	966	2535	14405	0177	00008	2633
0030	-0117	31882	961	2566	14400	0202	00014	2340
0050	-0150	32153	818	2588	14392	0247	00032	2122
0075	-0139	32544	674	2620	14406	0297	00064	1823
0100	-0134	32982	621	2655	14419	0339	00100	1486

C-REF-NO 341	YR 1961	DEPTH 491	WAVES 1	X0	AIR T -05.6	VIS 9
CONS. NO 014	MONTH 8	MXSAMPD 04	WAVES 2	2C	WET B	STN
LAT 74-270N	DAY 31	NO.DPTH 13	WND-DIR 320	WW-CODE 03		
LON 115-300W	HR 06.0	W-COLOR	WND-SPD 03	CLD-TPE 5		
MARSD SQ 264	C/I 1810	W-TRNSP	BARO 1010.	CLD-AMT 6	HW 10	

O B S E R V E D

	GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
		060	0000	-011	25660	932	2063 14312
		060	0010	-0068	29442	949	2367 14386
		060	0020	-0100	31578	976	2541 14402
		060	0030	-0124	31882	967	2566 14397
3	060	0050	-0154	32706	825	2633	14397
	060	0075	-0139	32767	674	2638	14410
3	060	0100	-0135	33284	621	2680	14423
	060	0150	-0085	33936	576	2731	14464
	060	0200	-0024	34474	532	2771	14508
	060	0250	0004	34669	523	2786	14532
	060	0300	0020	34764	541	2793	14549
5	060	0400	0033	34833	417	2797	14572
	060	0450	0035	34843	506	2798	14581

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0110	25660	932	2063	14312	0000	00000	7144
0010	-0068	29442	949	2367	14386	0057	00002	4230
0020	-0100	31578	976	2541	14402	0091	00007	2579
0030	-0124	31882	967	2566	14397	0116	00013	2338
0050	-0154	32706	825	2633	14397	0157	00029	1696
0075	-0139	32767	674	2638	14410	0199	00056	1651
0100	-0135	33284	621	2680	14423	0235	00088	1254
0125	-0114	3365 F	593 C	2708	14442	0264	00120	0980
0150	-0085	33936	576	2731	14464	0286	00151	0771
0175	-0053	3423 C	552 B	2753	14487	0302	00179	0556
0200	-0024	34474	532	2771	14508	0314	00201	0387
0225	-0007	3460 C	524	2781	14521	0323	00220	0300
0250	0004	34669	523	2786	14532	0330	00237	0253
0300	0020	34764	541	2793	14548	0341	00268	0191
0400	0033	34833	417	2797	14572	0358	00329	0147

C-REF-NO 341	YR 1961	DEPTH 485	WAVES 1 XX	AIR T -05.1	VIS 9
CONS. NO 015	MONTH 8	MXSAMPD 01	WAVES 2 XX	WET B -05.5	STN
LAT 74-250N	DAY 31	NO.DPTH 7	WND-DIR 310	WW-CODE 02	
LON 115-265W	HR 14.8	W-COLOR	WND-SPD 09	CLD-TPE 4	
MARSD SQ 264	C/I 1810	W-TRNSP	BARO 1005.	CLD-AMT 6	HW 07

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
148	0000	-011	26047		2094	14317
148	0010	-0067	30731		2471	14404
148	0020	-0110	31715		2552	14399
148	0030	-0135				
148	0049	-0149				
148	0073	-0140				
148	0098	-0132				

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0110	26047		2094	14317	0000	00000	6844
0010	-0067	30731		2471	14404	0051	00002	3239
0020	-0110	31715		2552	14399	0079	00006	2471
0030	-0135							
0050	-0149							
0075	-0145							
0100	-0130							

C-REF-NO 341	YR 1961	DEPTH 494	WAVES 1 XX	AIR T -04.6	VIS 9
CONS. NO 016	MONTH 9	MXSAMPD 04	WAVES 2 XX	WET B -05.1	STN
LAT 74-213N	DAY 01	NO.DPTH 13	WND-DIR 290	WW-CODE 71	
LON 115-182W	HR 21.0	W-COLOR	WND-SPD 01	CLD-TPE 0	
MARSD SQ 264	C/I 1810	W-TRNSP	BARO 1007.	CLD-AMT 6	HW 12

O B S E R V E D

	GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
	210	0000	-013	25392	940	2041	14299
	210	0010	-0066	30534	966	2455	14402
	210	0020	-0102	31585	976	2541	14401
	210	0030	-0117	31838	958	2562	14399
	210	0050	-0150	32138	807	2587	14391
	210	0075	-0138	32556	648	2621	14407
	210	0100	-0131	32932	603	2651	14420
	210	0150	-0090	33948	557	2732	14462
	210	0200	-0025	34469	523	2771	14507
5	210	0250	0003	34664	426	2785	14531
	210	0300	0020	34762	506	2792	14548
5	210	0400	0032	34833	408	2797	14572
5	210	0450	0033	34871	399	2800	14581

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0130	25392	940	2041	14299	0000	00000	7351
0010	-0066	30534	966	2455	14402	0054	00002	3391
0020	-0102	31585	976	2541	14401	0084	00006	2573
0030	-0117	31838	958	2562	14399	0109	00012	2374
0050	-0150	32138	807	2587	14391	0154	00031	2134
0075	-0138	32556	648	2621	14407	0204	00062	1814
0100	-0131	32932	603	2651	14420	0246	00099	1525
0125	-0114	3345 I	576 B	2692	14439	0279	00137	1133
0150	-0090	33948	557	2732	14461	0303	00170	0759
0175	-0057	3426 B	543 C	2756	14485	0320	00197	0535
0200	-0025	34469	523	2771	14507	0331	00220	0390
0225	-0008	3459 C	467 I	2780	14521	0340	00239	0305
0250	0003	34664	426	2785	14531	0347	00256	0257
0300	0020	34762	506	2792	14548	0358	00287	0192
0400	0032	34833	408	2797	14571	0375	00348	0146

C-REF-NO 341	YR 1961	DEPTH 488	WAVES 1 XX	AIR T -04.4	VIS 8
CONS. NO 017	MONTH 9	MXSAMPD 04	WAVES 2 XX	WET B -95.6	STN
LAT 74-220N	DAY 02	NO.DPTH 13	WND-DIR 180	WW-CODE 02	
LON 115-090W	HR 14.8	W-COLOR	WND-SPD 03	CLD-TPE 4	
MARSD SQ 264	C/I 1810	W-TRNSP	BARO 1009.	CLD-AMT 6	HW 05

O B S E R V E D

	GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
	148	0000	-012	25414	931	2043	14304
	148	0010	-0048	30422	966	2446	14409
	148	0020	-0099	31563	975	2539	14402
	148	0030	-0130	31820	948	2561	14393
	148	0050	-0149	32182	772	2591	14392
	148	0075	-0139	32602	665	2624	14407
	148	0100	-0132	32926	621	2650	14419
	148	0150	-0086	33958	558	2732	14463
	148	0200	-0023	34487	514	2772	14508
5	148	0250	0003	34672	417	2786	14531
	148	0300	0020	34764	514	2793	14548
5	148	0400	0032	34828	399	2797	14571
5	148	0450	0033	34846	408	2798	14580

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0120	25414	931	2043	14304	0000	00000	7334
0010	-0043	30422	966	2446	14409	0054	00002	3482
0020	-0099	31563	975	2539	14402	0085	00006	2591
0030	-0130	31820	948	2561	14393	0110	00013	2384
0050	-0149	32182	772	2591	14392	0155	00031	2100
0075	-0139	32602	665	2624	14407	0204	00062	1778
0100	-0132	32926	621	2650	14419	0245	00099	1530
0125	-0113	3344 I	586	2692	14440	0279	00137	1139
0150	-0086	33958	558	2732	14463	0303	00170	0753
0175	-0053	3428 B	538 C	2757	14487	0319	00196	0524
0200	-0023	34487	514	2772	14508	0330	00218	0378
0225	-0007	3461 D	457 I	2781	14521	0339	00236	0295
0250	0003	34672	417	2786	14531	0346	00253	0251
0300	0020	34764	514	2793	14548	0357	00284	0191
0400	0032	34828	399	2797	14571	0374	00345	0150

C-REF-NO 341 YR 1961 DEPTH 329 WAVES 1 XX AIR T -02.8 VIS 9
 CONS. NO 018 MONTH 9 MXSAMPD 03 WAVES 2 XX WET B -03.1 STN
 LAT 74-253N DAY 04 NO.DPTH 11 WND-DIR 010 WW-CODE 02
 LON 111-545W HR 21.4 W-COLOR WND-SPD 07 CLD-TPE 6
 MARSD SQ 264 C/I 1810 W-TRNSP BARO 1007. CLD-AMT 6 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
214	0000	-013	25463	904	2047	14300
214	0010	-0147	29022	922	2335	14343
214	0020	-0078	29810	922	2397	14388
214	0030	-0076	31432	984	2528	14413
214	0050	-0135	32004	886	2576	14397
214	0075	-0143	32399	718	2608	14403
214	0100	-0136	32866	638	2646	14417
214	0150	-0092	33912	567	2729	14460
214	0200	-0021	34510	523	2774	14510
214	0250	0007	34699	502	2788	14533
214	0300	0018	34754	505	2792	14547

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0130	25463	904	2047	14300	0000	00000	7296
0010	-0147	29022	922	2335	14343	0059	00002	4539
0020	-0078	29810	922	2397	14388	0102	00009	3943
0030	-0076	31432	984	2528	14413	0135	00017	2697
0050	-0135	32004	886	2576	14397	0185	00037	2240
0075	-0143	32399	718	2608	14402	0237	00070	1933
0100	-0136	32866	638	2646	14416	0282	00109	1574
0125	-0118	3341 H	593 D	2689	14437	0316	00148	1163
0150	-0092	33912	567	2729	14460	0341	00182	0786
0175	-0056	34265	542	2756	14486	0357	00209	0532
0200	-0021	34510	523	2774	14510	0369	00231	0361
0225	-0003	3464 D	510	2784	14524	0377	00248	0273
0250	0007	34699	502	2788	14533	0383	00264	0232
0300	0018	34754	505	2792	14547	0394	00294	0197

C-REF-NO 341 YR 1961 DEPTH 115 WAVES 1 34X3 AIR T -04.6 VIS 9
 CONS. NO 019 MONTH 9 MXSAMPD C1 WAVES 2 2842 WET B -04.7 STM
 LAT 74-46N DAY 05 NO.DPTH 7 WND-DIR 350 WW-CODE 02
 LON 101-130W HR 14.4 W-COLOR WND-SPD 10 CLD-TPE 6
 MARSD SQ 263 C/I 1810 W-TRNSP BAKO 1002. CLD-AMT 8 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
144	0000	-010	30166		2427	14379
144	0010	-0093	30147		2425	14384
144	0020	-0052	31377		2523	14422
144	0030	-0120	32330		2602	14405
144	0049	-0116	32900		2648	14418
144	0074	-0106	33250		2676	14432
144	0099	-0091	33608		2704	14448

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0100	30166		2427	14379	0000	00000	3666
0010	-0093	30147		2425	14384	0037	00002	3681
0020	-0052	31377		2523	14422	0069	00007	2748
0030	-0120	32330		2602	14405	0093	00013	1995
0050	-0116	32918		2649	14418	0129	00027	1544
0075	-0106	3334 I		2683	14433	0164	00049	1223
0100	-0090	33615		2705	14448	0192	00074	1016

C-REF-NO 341	YR 1961	DEPTH 110	WAVES 1 34X1	AIR T -01.1	VIS 8
CONS. NO 020	MONTH 9	MXSAMPD 01	WAVES 2 XX	WET 8	STN
LAT 74-355N	DAY 07	NO.DPTH 7	WND-DIR 340	WW-CODE 02	
LON 94-300W	HR 02.2	W-COLOR	WND-SPD 01	CLD-TPE 6	
MARSD SQ 262	C/I 1810	W-TRNSP	BARO 1010.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
022	0000	-009	30512		2454	14389
022	0010	-0019	31493		2531	14437
022	0020	-0020	32244		2592	14449
022	0030	-0093	32433		2609	14419
022	0050	-0116	32696		2631	14415
022	0074	-0121	32778		2638	14418
022	0099	-0086	32978		2653	14441

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D.	POT.EN	SVA
0000	-0090	30512		2454	14389	0000	00000	3402
0010	-0019	31493		2531	14437	0031	00001	2671
0020	-0020	32244		2592	14449	0055	00005	2095
0030	-0093	32433		2609	14419	0075	00010	1924
0050	-0116	32696		2631	14415	0111	00025	1714
0075	-0118	3285 I		2644	14420	0153	00051	1597
0100	-0084	32982		2654	14442	0192	00086	1502

C-REF-NO 341	YR 1961	DEPTH 155	WAVES 1 34X1	AIR T -03.3	VIS 8
CONS. NO 021	MONTH 9	MXSAMPD 01	WAVES 2 XX	WET B	STN
LAT 74-300N	DAY 07	NO.DPTH 8	WND-DIR 350	WW-CODE 02	
LON 94-300W	HR 04.0	W-COLOR	WND-SPD C1	CLD-TPE 6	
MARSD SQ 262	C/I 1810	W-TRNSP	BARO 1010.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
040	0000	-009	30093	842	2420	14383
040	0010	-0093	30178	834	2427	14384
040	0020	-0092	31332	851	2520	14402
040	0030	-0118	31770	851	2557	14398
040	0050	-0137	32266	753	2597	14399
040	0075	-0123	32706	692	2632	14416
040	0100	-0124	32956	621	2653	14423
040	0140	-0094	33134	568	2666	14447

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0090	30093	842	2420	14383	0000	00000	3725
0010	-0093	30178	834	2427	14384	0037	00002	3658
0020	-0092	31332	851	2520	14402	0069	00007	2770
0030	-0118	31770	851	2557	14398	0096	00013	2426
0050	-0137	32266	753	2597	14399	0140	00031	2038
0075	-0123	32706	692	2632	14416	0188	00061	1703
0100	-0124	32956	621	2653	14423	0228	00097	1509
0125	-0104	3312 B	587 C	2665	14439	0265	00139	1391

C-REF-NO 341	YR 1961	DEPTH 174	WAVES 1 32X1	AIR T -03.3	VIS 8
CONS. NO 022	MONTH 9	MXSAMPD 01	WAVES 2 XX	WET B	STN
LAT 74-23CN	DAY 07	NO.DPTH 8	WND-DIR 320	WW-CODE C2	
LON 94-31CW	HR 06.3	W-COLOR	WND-SPD 04	CLD-TPE 5	
MARSD SQ 262	C/I 1810	W-TRNSP	BARO 1011.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
C63	0000	-009	30453		2449	14388
C63	0010	-0069	30850		2481	14405
C63	0020	-0094	31400		2526	14402
C63	0030	-0104	31620		2544	14403
C63	0050	-0136	32096		2583	14397
C63	0075	-0127	32604		2624	14413
C63	0100	-0115	32958		2653	14428
C63	0150	-0105	33381		2686	14447

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0090	30453		2449	14388	0000	00000	3448
0010	-0069	30850		2481	14405	0033	00002	3147
0020	-0094	31400		2526	14402	0063	00006	2717
0030	-0104	31620		2544	14403	0089	00013	2545
0050	-0136	32096		2583	14397	0137	00032	2169
0075	-0127	32604		2624	14413	0186	00063	1780
0100	-0115	32958		2653	14428	0228	00000	1510
0125	-0110	3324 C		2675	14438	0263	00140	1298
*0150	-0105	33381		2686	14447	0294	00184	1187

C-REF-NO 341	YR 1961	DEPTH 184	WAVES 1 32X2	AIR T -03.3	VIS 8
CONS. NO 023	MONTH 9	MXSAMPD 01	WAVES 2 3242	WET B	STN
LAT 74-170N	DAY 07	NO.DPTH 8	WND-DIR 320	WW-CODE 02	
LDN 94-300W	HR 09.0	W-COLOR	WND-SPD 04	CLD-TPE 5	
MARSD SQ 262	C/I 1810	W-TRNSP	BARO 1011.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
090	0000	-009	30539	837	2456	14389
090	0010	-0064	30932	872	2487	14408
090	0020	-0094	31432	837	2529	14403
090	0030	-0119	31866	766	2564	14399
090	0050	-0130	32394	869	2607	14404
090	0075	-0128	32750	626	2636	14415
090	0100	-0126	32888	599	2647	14422
090	0150	-0116	33164	582	2669	14438

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0090	30539	837	2456	14389	0000	00000	3382
0010	-0064	30932	872	2487	14408	0033	00002	3086
0020	-0094	31432	837	2529	14403	0062	00006	2693
0030	-0119	31866	766	2564	14399	0087	00012	2352
0050	-0130	32394	869	2607	14404	0130	00030	1942
0075	-0128	32750	626	2636	14414	0176	00058	1667
0100	-0126	32888	599	2647	14421	0216	00095	1561
0125	-0121	3309 I	521 I	2664	14431	0254	00138	1402
*0150	-0116	33164	582	2669	14438	0288	00186	1349

C-REF-NO 341 YR 1961 DEPTH 183 WAVES 1 35X2 AIR T -05.4 VIS 9
 CONS. NO 024 MONTH 9 MXSAMPD 01 WAVES 2 3482 WET B -05.6 STN
 LAT 74-118N DAY 07 NO.DPTH 8 WND-DIR 010 WW-CODE C2
 LON 94-322W HR 11.3 W-COLOR WND-SPD 03 CLD-TPE 6
 MARSD SQ 262 C/I 1810 W-TRNSP BARO 1012. CLD-AMT 8 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
113	0000	-008	30543		2456	14394
113	0010	-0106	31386		2525	14395
113	0020	-0125	31914		2568	14395
113	0030	-0132	32060		2580	14395
113	0050	-0130	32435		2611	14405
113	0075	-0128	32662		2629	14413
113	0100	-0125	32843		2644	14421
113	0150	-0120	33056		2661	14435

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0080	30543		2456	14394	0000	00000	3381
0010	-0106	31386		2525	14395	0031	00001	2726
0020	-0125	31914		2568	14395	0056	00005	2314
0030	-0132	32060		2580	14395	0079	00011	2200
0050	-0130	32435		2611	14405	0120	00028	1910
0075	-0128	32662		2629	14413	0166	00057	1735
0100	-0125	32843		2644	14421	0208	00094	1595
0125	-0123	32973		2654	14428	0247	00139	1495
*0150	-0120	33056		2661	14435	0284	00191	1430

C-REF-NO 341	YR 1961	DEPTH 128	WAVES 1 36X2	AIR T -04.6	VIS 9
CONS. NO 025	MONTH 9	MXSAMPD 01	WAVES 2 XX	WET B -05.9	STN
LAT 74-410N	DAY 07	NO.DPTH 7	WND-DIR 360	WW-CODE 70	
LON 93-140W	HR 15.9	W-COLOR	WND-SPD 01	CLD-TPE 6	
MARSD SQ 262	C/I 1810	W-TRNSP	BARO 1011.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
159	0000	-003	32116		2582	14439
159	0010	-0014	32568		2617	14454
159	0020	-0015	32802		2636	14459
159	0030	-0034	32892		2644	14453
159	0050	-0042	33000		2653	14454
159	0075	-0066	33064		2659	14448
159	0100	-0098	33116		2665	14438

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT. EN	SWA
0000	-0030	32116		2582	14439	0000	00000	2190
0010	-0014	32568		2617	14454	0020	00001	1850
0020	-0015	32802		2636	14459	0038	00004	1671
0030	-0034	32892		2644	14453	0054	00008	1594
0050	-0042	33000		2653	14454	0086	00021	1507
0075	-0066	33064		2659	14448	0123	00044	1448
0100	-0098	33116		2665	14438	0159	00076	1395

C-REF-NO 341	YR 1961	DEPTH 137	WAVES 1 34X2	AIR T -03.9	VIS 9
CONS. NO C26	MONTH 9	MXSAMPD C1	WAVES 2 3482	WET B -04.6	STN
LAT 74-410N	DAY 07	NO.DPTH 7	WND-DIR 360	WW-CODE 7C	
LON 92-520W	HR 17.1	W-COLOR	WND-SPD 01	CLD-TPE 6	
MARSD SQ 262	C/I 1810	W-TRNSP	BARO 1011.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
171	0000	-004	31360		2521	14424
171	0010	-0023	31776		2554	14439
171	0020	-0046	32837		2640	14445
171	0030	-0058	32970		2652	14443
171	0050	-0057	33057		2659	14448
171	0075	-0102	33120		2665	14432
171	0100	-0108	33206		2672	14434

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0040	31360		2521	14424	0000	00000	2766
0010	-0023	31776		2554	14439	0026	00001	2453
0020	-0046	32837		2640	14445	0047	00004	1631
0030	-0058	32970		2652	14443	0063	00008	1525
0050	-0057	33057		2659	14448	0093	00021	1457
0075	-0102	33120		2665	14432	0129	00043	1392
0100	-0108	33206		2672	14434	0163	00074	1323

C-REF-NO 341	YR 1961	DEPTH 144	WAVES 1 XX	AIR T -03.9	VIS 8
CONS. NO 027	MONTH 9	MXSAMPD 01	WAVES 2 3642	WET B -04.6	STN
LAT 74-41CN	DAY 07	NO.DPTH 8	WND-DIR 320	WW-CODE 70	
LON 92-32CW	HR 18.4	W-COLOR	WND-SPD 04	CLD-TPE 5	
MARSD SQ 262	C/I 1810	W-TRNSP	BARO 1012.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
184	0000	003	30014		2410	14438
184	0010	0033	30253		2429	14444
184	0020	-0028	32239		2591	14445
184	0030	-0098	32647		2627	14420
184	0050	-0120	32921		2650	14417
184	0075	-0133	33080		2663	14417
184	0100	-0122	33195		2672	14428
184	0125	-0126	33310		2681	14432

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0030	30014		2410	14438	0000	00000	3823
0010	0033	30253		2429	14444	0038	00002	3641
0020	-0028	32239		2591	14445	0066	00006	2096
0030	-0098	32647		2627	14420	0086	00011	1758
0050	-0120	32921		2650	14417	0119	00024	1540
0075	-0133	33080		2663	14417	0156	00048	1413
0100	-0122	33195		2672	14428	0191	00079	1327
0125	-0126	33310		2681	14432	0223	00116	1236

C-REF-NO 341	YR 1961	DEPTH 130	WAVES 1 XX	AIR T -05.0	VIS 8
CONS. NO 028	MONTH 9	MXSAMPD 01	WAVES 2 3642	WET B -05.4	STN
LAT 74-410N	DAY 07	NO.DPTH 7	WND-DIR 320	WW-CODE 02	
LON 92-100W	HR 19.5	W-COLOR	WND-SPD 04	CLD-TPE 7	
MARSD SQ 262	C/I 1810	W-TRNSP	BARO 1011.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
195	0000	005	30905		2481	14459
195	0010	0050	30889		2479	14460
195	0020	-0004	31729		2549	14449
195	0030	-0104	32582		2622	14416
195	0050	-0125	32880		2647	14414
195	0075	-0130	33073		2662	14418
195	0100	-0128	33240		2676	14426

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0050	30905		2481	14459	0000	00000	3150
0010	0050	30889		2479	14460	0032	00002	3162
0020	-0004	31729		2549	14449	0060	00006	2496
0030	-0104	32582		2622	14416	0082	00011	1806
0050	-0125	32880		2647	14414	0116	00025	1570
0075	-0130	33073		2662	14418	0153	00049	1419
0100	-0128	33240		2676	14425	0188	00079	1290

C-REF-NO 341	YR 1961	DEPTH 141	WAVES 1 X2	AIR T -05.0	VIS 8
CONS. NO 029	MONTH 9	MXSAMPD 01	WAVES 2 3242	WET B -05.4	STN
LAT 74-41CN	DAY 07	NO.DPTH 8	WND-DIR 320	WW-CODE 02	
LCN 91-55CW	HR 20.7	W-COLOR	WND-SPD 04	CLD-TPE 7	
MARSD SQ 262	C/I 1810	W-TRNSP	BARO 1011.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
207	0000	004	31062		2494	14457
207	0010	0033	31099		2497	14456
207	0020	0025	31223		2507	14455
207	0030	-0046	31923		2567	14434
207	0050	-0106	32693		2631	14420
207	0075	-0120	32955		2652	14421
207	0100	-0127	33073		2662	14424
207	0125	-0128	33100		2664	14428

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT. EN	SVA
0000	0040	31062		2494	14457	0000	00000	3026
0010	0033	31099		2497	14456	0030	00002	2994
0020	0025	31223		2507	14455	0060	00006	2995
0030	-0046	31923		2567	14434	0086	00013	2931
0050	-0106	32693		2631	14420	0127	00029	1719
0075	-0120	32955		2652	14421	0168	00055	1513
0100	-0127	33073		2662	14424	0205	00087	1318
0125	-0128	33100		2664	14428	0240	00128	1196

C-REF-NO 341	YR 1961	DEPTH 155	WAVES 1 33X2	AIR T -05.0	VIS 8
CONS. NO 030	MONTH 9	MXSAMPD 01	WAVES 2 3342	WET B -05.4	STM
LAT 74-325N	DAY 07	NO.DPTH 8	WND-DIR 320	WW-CODE C2	
LON 91-510W	HR 21.9	W-COLOR	WND-SPD 04	CLD-TPE 5	
MARSD SQ 262	C/I 1810	W-TRNSP	BARO 1011.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
219	0000	0040	31027		2491	14456
219	0010	0031	31210		2506	14456
219	0020	-0035	32126		2583	14440
219	0030	-0105	32693		2631	14417
219	0050	-0130	33018		2658	14413
219	0075	-0133	33122		2666	14417
219	0100	-0122	33232		2675	14428
219	0140	-0135	33617		2706	14434

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0040	31027		2491	14456	0000	00000	3052
0010	0031	31210		2506	14456	0030	00001	2908
0020	-0035	32126		2583	14440	0056	00005	2180
0030	-0105	32693		2631	14417	0075	00010	1721
0050	-0130	33018		2658	14413	0107	00023	1463
0075	-0133	33122		2666	14417	0143	00046	1381
0100	-0122	33232		2675	14428	0177	00076	1298
0125	-0132	3346 C		2694	14431	0207	00111	1117

C-REF-NO 341	YR 1961	DEPTH 159	WAVES 1 34X2	AIR T -05.0	VIS 8
CONS. NO 031	MONTH 9	MXSAMPD 01	WAVES 2 3442	WET B -05.0	STN
LAT 74-073N	DAY 08	NO.DPTH 8	WND-DIR	WW-CODE 58	
LON 91-465W	HR 00.8	W-COLOR	WND-SPD	CLD-TPE 5	
MARSD SQ 262	C/I 1810	W-TRNSP	BARO 1012.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
008	0000	-006	30765		2474	14406
008	0010	-0052	30941		2488	14414
008	0020	-0104	31601		2543	14401
008	0030	-0131	31974		2573	14395
008	0050	-0138	32306		2600	14399
008	0075	-0130	32635		2627	14412
008	0100	-0127	32860		2645	14421
008	0140	-0124	32969		2654	14430

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0060	30765		2474	14406	0000	00000	3216
0010	-0052	30941		2488	14414	0032	00002	3083
0020	-0104	31601		2543	14401	0060	00006	2560
0030	-0131	31974		2573	14395	0084	00012	2266
0050	-0138	32306		2600	14399	0127	00029	2007
0075	-0130	32635		2627	14412	0175	00059	1755
0100	-0127	32860		2645	14421	0217	00097	1582
0125	-0124	32961		2653	14428	0256	00141	1504

C-REF-NO 341	YR 1961	DEPTH 228	WAVES 1 34X1	AIR T -04.2	VIS 6
CONS. NO 032	MONTH 9	MXSAMPD 02	WAVES 2 3442	WET B -04.3	STN
LAT 74-190N	DAY 08	NO.DPTH 9	WND-DIR	WW-CODE 5C	
LON 91-55CW	HR 02.0	W-COLOR	WND-SPD	CLD-TPE 5	
MARSD SQ 262	C/I 1810	W-TRNSP	BARO 1011.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
020	0000	-007	30526	846	2455	14398
020	0010	-0068	30591	846	2460	14402
020	0020	-0084	31310	872	2518	14406
020	0030	-0126	31933	793	2570	14397
020	0050	-0133	32275	704	2598	14401
020	0075	-0130	32656	643	2629	14412
020	0100	-0116	32860	643	2645	14426
020	0150	-0114	33113	652	2665	14439
020	0200	-0123	33455	617	2693	14447

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0070	30526	846	2455	14398	0000	00000	3397
0010	-0068	30591	846	2460	14402	0034	00002	3347
0020	-0084	31310	872	2518	14406	0065	00006	2789
0030	-0126	31933	793	2570	14397	0090	00013	2299
0050	-0133	32275	704	2598	14401	0134	00030	2033
0075	-0130	32656	643	2629	14412	0181	00060	1739
0100	-0116	32860	643	2645	14426	0223	00098	1585
0125	-0112	3299 D	650 B	2655	14434	0262	00142	1482
0150	-0114	33113	652	2665	14439	0298	00193	1389
0175	-0114	3331 G	633 D	2681	14445	0331	00248	1237
*0200	-0123	33455	617	2693	14447	0361	00305	1121

C-REF-NO 341	YR 1961	DEPTH 311	WAVES 1 34X1	AIR T -03.8	VIS 6
CONS. NO 033	MONTH 9	MXSAMPD 02	WAVES 2 3442	WET B -03.8	STN
LAT 74-23CN	DAY 08	NO.DPTH 10	WND-DIR 290	WW-CODE 56	
LON 91-55CW	HR 04.3	W-COLOR	WND-SPD 03	CLD-TPE 9	
MARSD SQ 262	C/I 1810	W-TRNSP	BARO 1011.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
043	0000	-001	31333	819	2518	14437
043	0010	-0004	31332	819	2517	14442
043	0020	-0054	32034	881	2576	14430
043	0030	-0092	32666	749	2628	14423
043	0050	-0126	32930	661	2651	14414
043	0075	-0115	33076	669	2662	14425
043	0100	-0128	33174	652	2670	14425
043	0150	-0120	33485	599	2695	14441
043	0200	-0126	33785	617	2720	14451
043	0250	-0114	33854	634	2725	14466

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0010	31333	819	2518	14437	0000	00000	2798
0010	-0004	31332	819	2517	14442	0028	00001	2800
0020	-0054	32034	881	2576	14430	0054	00005	2243
0030	-0092	32666	749	2628	14423	0074	00010	1746
0050	-0126	32930	661	2651	14414	0107	00024	1532
0075	-0115	33076	669	2662	14425	0144	00047	1421
0100	-0128	33174	652	2670	14425	0179	00078	1341
0125	-0126	3332 B	623 D	2682	14432	0211	00116	1228
0150	-0120	33485	599	2695	14441	0240	00157	1102
0175	-0123	3365 C	604 C	2709	14446	0266	00200	0973
0200	-0126	33785	617	2720	14451	0290	00245	0868
0225	-0118	3382 E	615 E	2722	14459	0311	00292	0846
*0250	-0114	33854	634	2725	14466	0332	00343	0817

C-REF-NO 341 YR 1961 DEPTH 454 WAVES 1 XX AIR T -01.4 VIS 8
 CONS. NO 034 MONTH 9 MXSAMPD 04 WAVES 2 XX WET B -01.8 STN
 LAT 74-245N DAY 09 NO.DPTH 12 WND-DIR 020 WW-CODE 02
 LON 87-100W HR 06.2 W-COLOR WND-SPD 04 CLD-TPE 5
 MARSD SQ 261 C/I 1810 W-TRNSP BARO 1011. CLD-AMT 8 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
062	0000	005	31360	802	2517	14465
062	0010	0056	31365	811	2517	14470
062	0020	0077	31782	811	2550	14487
062	0030	-0133	32314	767	2601	14399
062	0050	-0128	32653	696	2628	14409
062	0075	-0124	32972	634	2654	14420
062	0100	-0132	33118	634	2666	14422
062	0150	-0128	33516	634	2698	14438
062	0200	-0130	33796	631	2721	14449
062	0250	-0085	33986	590	2735	14481
062	0300	-0032	34131	655	2744	14516
062	0400	0009	34290	646	2755	14553

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0050	31360	802	2517	14465	0000	00000	2802
0010	0056	31365	811	2517	14470	0028	00001	2801
0020	0077	31782	811	2550	14487	0055	00005	2493
0030	-0133	32314	767	2601	14399	0077	00011	2004
0050	-0128	32653	696	2628	14409	0115	00026	1744
0075	-0124	32972	634	2654	14419	0156	00052	1498
0100	-0132	33118	634	2666	14422	0192	00085	1382
0125	-0131	3332 D	634	2682	14429	0225	00122	1230
0150	-0128	33516	634	2698	14438	0254	00163	1076
0175	-0132	33669	635 B	2711	14442	0280	00206	0956
0200	-0130	33796	631	2721	14449	0303	00249	0858
0225	-0111	33899	606 F	2729	14463	0323	00295	0785
0250	-0085	33986	590	2735	14481	0343	00341	0728
0300	-0032	34131	655	2744	14516	0377	00438	0642
0400	0009	34290	646	2755	14553	0437	00651	0543

C-REF-NO 341	YR 1961	DEPTH 446	WAVES 1 XX	AIR T -01.1	VIS 8
CONS. NO 035	MONTH 9	MXSAMPD 04	WAVES 2 3542	WET B -01.7	STN
LAT 74-12CN	DAY 09	NO.DPTH 12	WND-DIR 360	WW-CODE 02	
LON 87-12CW	HR 08.3	W-COLOR	WND-SPD 03	CLD-TPE 5	
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 1011.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
083	0000	004	31184	828	2504	14458
083	0010	0061	31324	828	2514	14472
083	0020	-0066	31662	811	2546	14419
083	0030	-0096	32078	828	2581	14413
083	0050	-0122	32762	696	2637	14413
083	0075	-0122	33058	687	2661	14422
083	0100	-0115	33324	617	2682	14433
083	0150	-0125	33568	705	2702	14440
083	0200	-0141	33698	705	2713	14442
083	0250	-0146	33816	687	2723	14450
083	0300	-0104	33967	626	2734	14480
083	0400	0010	34294	626	2755	14554

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SWA
0000	0040	31184	828	2504	14458	0000	00000	2932
0010	0061	31324	828	2514	14472	0029	00001	2835
0020	-0066	31662	811	2546	14419	0056	00006	2524
0030	-0096	32078	828	2581	14413	0080	00012	2195
0050	-0122	32762	696	2637	14413	0119	00027	1662
0075	-0122	33058	687	2661	14422	0158	00052	1433
0100	-0115	33324	617	2682	14433	0191	00081	1230
0125	-0118	3348 D	648 I	2695	14438	0221	00115	1110
0150	-0125	33568	705	2702	14440	0248	00153	1037
0175	-0133	3364 B	712 C	2708	14441	0273	00196	0977
0200	-0141	33698	705	2713	14442	0297	00242	0920
0225	-0147	33756	700	2718	14444	0320	00292	0882
0250	-0146	33816	687	2723	14450	0342	00344	0835
0300	-0104	33967	626	2734	14480	0381	00455	0733
0400	0010	34294	626	2755	14554	0445	00681	0540

C-REF-NO 341 YR 1961 DEPTH 485 WAVES 1 29X2 AIR T -01.1 VIS 9
 CONS. NO 036 MONTH 9 MXSAMPD 04 WAVES 2 2982 WET B -01.6 STN
 LAT 74-C2CN DAY 09 NO.DPTH 13 WND-DIR 300 WW-CODE 02
 LON 87-110W HR 10.2 W-COLOR WND-SPD 05 CLD-TPE 5
 MARSD SQ 261 C/I 1810 W-TRNSP BARO 1011. CLD-AMT 8 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
102	0000	003	31414	829	2523	14457
102	0010	0035		873		
102	0020	-0082	32011	846	2575	14417
102	0030	-0142	32444	705	2612	14396
102	0050	-0140	32886	688	2647	14407
102	0075	-0135	33092	643	2664	14416
102	0100	-0124	33265	617	2678	14428
102	0150	-0135	33638	661	2708	14436
102	0200	-0153	33814	678	2723	14438
102	0250	-0104	33955	608	2733	14472
102	0300	-0034	34125	547	2744	14515
102	0400	0013	34319	547	2757	14556
102	0450	0016	34340	547	2759	14566

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0030	31414	829	2523	14457	0000	00000	2752
0010	0035	3176 I	873	2550	14466	0026	00001	2489
0020	-0082	32011	846	2575	14417	0050	00005	2252
0030	-0142	32444	705	2612	14396	0071	00010	1902
0050	-0140	32886	688	2647	14407	0106	00024	1562
0075	-0135	33092	643	2664	14416	0143	00048	1403
0100	-0124	33265	617	2678	14428	0177	00078	1272
0125	-0126	3346 C	633 G	2694	14434	0207	00112	1120
0150	-0135	33638	661	2708	14436	0234	00150	0980
0175	-0148	3374 B	677 C	2717	14436	0257	00189	0896
0200	-0153	33814	678	2723	14438	0279	00231	0837
0225	-0134	33885	648 D	2728	14452	0300	00276	0788
0250	-0104	33955	608	2733	14472	0319	00323	0744
0300	-0034	34125	547	2744	14515	0354	00421	0645
0400	0013	34319	547	2757	14556	0413	00630	0523

C-REF-NO 341	YR 1961	DEPTH 300	WAVES 1 32X2	AIR T -01.3	VIS 7
CONS. NO C37	MONTH 9	MXSAMPD C2	WAVES 2 3082	WET B -02.2	STM
LAT 73-502N	DAY 09	NO.DPTH 10	WND-DIR 330	WW-CODE C1	
ION 87-100W	HR 12.3	W-COLOR	WND-SPD 07	CLD-TPE 4	
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 1012.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
123	0000	-002	31210		2508	14431
123	0010	-0024	31271		2513	14432
123	0020	-0033	31594		2540	14434
123	0030	-0120	32034		2578	14401
123	0050	-0154	32354		2605	14393
123	0075	-0130	32682		2631	14413
123	0100	-0130	32878		2647	14420
123	0150	-0115	33204		2672	14439
123	0200	-0126	33652		2709	14449
123	0250	-0112	33863		2726	14467

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0020	31210		2508	14431	0000	00000	2888
0010	-0024	31271		2513	14432	0029	00001	2839
0020	-0033	31594		2540	14434	0056	00006	2588
0030	-0120	32034		2578	14401	0080	00012	2223
0050	-0154	32354		2605	14393	0122	00029	1967
0075	-0130	32682		2631	14413	0169	00058	1719
0100	-0130	32878		2647	14419	0210	00095	1567
0125	-0122	3304 C		2659	14430	0248	00139	1444
0150	-0115	33204		2672	14439	0283	00188	1319
0175	-0120	3344 E		2691	14444	0314	00239	1139
0200	-0126	33652		2709	14449	0341	00290	0970
0225	-0115	3374 H		2715	14459	0364	00341	0909
*0250	-0112	33863		2726	14467	0386	00394	0811

C-REF-NO 341	YR 1961	DEPTH 241	WAVES 1 02X3	AIR T -03.5	VIS 9
CONS. NO 038	MONTH 9	MXSAMPD 02	WAVES 2 0426	WET B -04.0	STN
LAT 72-43CN	DAY 11	NO.DPTH 9	WND-DIR 360	WW-CODE 00	
LON 91-550W	HR 13.6	W-COLOR	WND-SPD 09	CLD-TPE 1	
MARSD SQ 262	C/I 1810	W-TRNSP	BARO 1018.	CLD-AMT 1	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
136	0000	-004	30816		2477	14416
136	0010	-0038	30801		2476	14419
136	0020	-0034	31256		2512	14429
136	0030	-0022	31419		2525	14438
136	0050	-0055	31705		2549	14430
136	0075	-0167	32209		2593	14388
136	0100	-0157	32426		2611	14400
136	0150	-0142	32936		2652	14423
136	0200	-0117	33521		2698	14451

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0040	30816		2477	14416	0000	00000	3183
0010	-0038	30801		2476	14419	0032	00002	3195
0020	-0034	31256		2512	14428	0062	00006	2846
0030	-0022	31419		2525	14438	0090	00013	2725
0050	-0055	31705		2549	14430	0143	00035	2493
0075	-0167	32209		2593	14388	0200	00071	2073
0100	-0157	32426		2611	14400	0251	00115	1907
0125	-0150	32670		2630	14411	0296	00168	1719
0150	-0142	32936		2652	14423	0337	00225	1516
0175	-0129	33216		2674	14437	0372	00284	1304
*0200	-0117	33521		2698	14451	0402	00341	1073

C-REF-NO 341 YR 1961 DEPTH 333 WAVES 1 34X3 AIR T -00.3 VIS 9
 CONS. NO 039 MONTH 9 MXSAMPD 03 WAVES 2 3446 WET B -01.0 STN
 LAT 72-400N DAY 11 NO.DPTH 11 WND-DIR 360 WW-CODE 00
 LON 91-260W HR 16.4 W-COLOR WND-SPD 08 CLD-TPE 1
 MARSD SQ 262 C/I 1810 W-TRNSP BARO 1017. CLD-AMT 1 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
164	0000	-005	31746	864	2553	14425
164	0010	-0062	31726	864	2551	14420
164	0019	-0062	31723	864	2551	14422
164	0029	-0143	32072	767	2582	14390
164	0048	-0164	32232	740	2595	14386
164	0073	-0159	32470	723	2614	14396
164	0098	-0132	32711	470	2633	14416
164	0147	-0140	32982	452	2655	14424
164	0197	-0117	33453	617	2693	14450
164	0247	-0088	33895	564	2727	14478
164	0297	-0036	34109	522	2743	14513

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0050	31746	864	2553	14425	0000	00000	2467
0010	-0062	31726	864	2551	14420	0025	00001	2477
0020	-0069	3175 C	855 C	2554	14419	0050	00005	2453
0030	-0147	3209 B	763 B	2583	14389	0073	00011	2174
0050	-0165	32250	743 C	2597	14386	0115	00028	2044
0075	-0157	32491	704 E	2616	14397	0165	00059	1859
0100	-0132	32723	461 C	2634	14416	0209	00099	1685
0125	-0133 B	3287 F	410 I	2646	14422	0250	00146	1574
0150	-0139	33008	462 D	2657	14425	0288	00200	1461
0175	-0129	3324 C	546 I	2675	14437	0323	00258	1289
0200	-0116	33483	617 B	2695	14451	0353	00315	1102
0225	-0103	3372 C	600 I	2713	14465	0379	00371	0928
0250	-0083	3388 G	600 I	2726	14481	0401	00424	0810
0300	-0033	34120	514 C	2743	14515	0438	00527	0650

C-REF-NO 341	YR 1961	DEPTH 419	WAVES 1 36X3	AIR T	VIS 9
CONS. NO 040	MONTH 9	MXSAMPD 04	WAVES 2 XX	WET B	STN
LAT 72-37CN	DAY 11	NO.DPTH 12	WND-DIR 360	WW-CODE 01	
LON 90-50CW	HR 18.4	W-COLOR	WND-SPD 10	CLD-TPE 1	
MARSD SQ 262	C/I 1810	W-TRNSP	BARO 1017.	CLD-AMT 1	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
184	0000	-001	31377		2521	14438
184	0010	-0025	31372		2521	14433
184	0020	-0058	31676		2547	14423
184	0030	-0070	31797		2557	14421
184	0049	-0165	32159		2589	14384
184	0074	-0160	32394		2608	14394
184	0098	-0153	32624		2627	14405
184	0148	-0140	32989		2656	14424
184	0198	-0112	33518		2698	14453
184	0248	-0080	33881		2726	14482
184	0298	-0050	34029		2737	14506
184	0398	0000	34241		2751	14548

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0010	31377		2521	14438	0000	00000	2764
0010	-0025	31372		2521	14433	0028	00001	2761
0020	-0058	31676		2547	14423	0054	00005	2516
0030	-0070	31797		2557	14421	0079	00012	2419
0050	-0166	32171		2590	14384	0125	00030	2105
0075	-0160	32404		2609	14395	0175	00062	1925
0100	-0153	32639		2628	14405	0222	00104	1745
0125	-0147	3282 D		2642	14415	0264	00152	1605
0150	-0139	33010		2657	14425	0302	00206	1460
0175	-0126	3328 E		2679	14439	0337	00263	1260
0200	-0111	33536		2699	14454	0366	00319	1064
0225	-0095	33738		2715	14469	0391	00373	0915
0250	-0079	33889		2727	14482	0413	00426	0805
0300	-0049	3408 I		2741	14507	0450	00530	0670
0400	0001	34240		2751	14549	0513	00754	0575

C-REF-NO 341 YR 1961 DEPTH 346 WAVES 1 36X2 AIR T -01.1 VIS 9
 CONS. NO 041 MONTH 9 MXSAMPD 03 WAVES 2 XX WET B -01.3 STN
 LAT 72-34CN DAY 11 NO.DPTH 11 WND-DIR 360 WW-CODE 01
 LON 90-25CW HR 20.2 W-COLOR WND-SPD 10 CLD-TPE 1
 MARSD SQ 262 C/I 1810 W-TRNSP BARO 1016. CLD-AMT 1 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
202	0000	000	31417	864	2524	14443
202	0010	0000	31411	855	2524	14445
202	0020	-0012	31515	837	2532	14442
202	0030	-0093	31920	802	2568	14412
202	0050	-0162	32177	705	2591	14386
202	0075	-0163	32333	688	2603	14392
202	0100	-0159	32480	670	2615	14400
202	0150	-0144	32929	652	2651	14422
202	0200	-0121	33333	635	2683	14447
202	0250	-0054	34005	512	2735	14496
202	0300	-0010	34197	494	2748	14527

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0000	31417	864	2524	14443	0000	00000	2737
0010	0000	31411	855	2524	14445	0028	00001	2741
0020	-0012	31515	837	2532	14442	0055	00006	2656
0030	-0093	31920	802	2568	14412	0080	00012	2317
0050	-0162	32177	705	2591	14386	0124	00030	2101
0075	-0163	32333	688	2603	14392	0176	00063	1979
0100	-0159	32480	670	2615	14400	0224	00106	1865
0125	-0153	3269 D	659	2632	14410	0269	00157	1700
0150	-0144	32929	652	2651	14422	0309	00214	1520
0175	-0136	3312 D	650 E	2666	14432	0346	00275	1377
0200	-0121	33333	635	2683	14447	0379	00338	1215
0225	-0089	3368 I	574 I	2710	14471	0406	00397	0959
0250	-0054	34005	512	2735	14496	0427	00449	0728
0300	-0010	34197	494	2748	14527	0461	00543	0603

C-REF-NO 341	YR 1961	DEPTH 79	WAVES 1 01X2	AIR T -01.4	VIS 9
CONS. NO 042	MONTH 9	MXSAMPD 01	WAVES 2 0182	WET B -01.7	STN
LAT 72-330N	DAY 11	NO.DPTH 6	WND-DIR 100	WW-CODE 02	
LON 89-590W	HR 21.8	W-COLOR	WND-SPD 08	CLD-TPE 6	
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 1017.	CLD-AMT 2	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
218	0000	-006	31825	828	2559	14421
218	0010	-0071	31800	828	2558	14417
218	0020	-0074	31806	828	2558	14418
218	0029	-0145	31019	785	2496	14375
218	0049	-0159	32180	705	2591	14388
218	0068	-0161	32254	678	2597	14391

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0060	31825	828	2559	14421	0000	00000	2403
0010	-0071	31800	828	2558	14417	0024	00001	2418
0020	-0074	31806	828	2558	14418	0049	00005	2411
0030	-0148	3104 I	780	2498	14374	0076	00012	2978
0050	-0186 F	3147 I	707 C	2533	14365	0132	00035	2643

C-REF-NO 341	YR 1961	DEPTH 201	WAVES 1 34X2	AIR T -01.4	VIS 8
CONS. NO 043	MONTH 9	MXSAMPD 02	WAVES 2 3482	WET B -01.9	STN
LAT 73-060N	DAY 12	NO.DPTH 9	WNC-DIR 340	WW-CODE 02	
LON 89-200W	HR 02.0	W-COLOR	WND-SPD 05	CLD-TPE 6	
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 1016.	CLD-AMT 2	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
C20	0000	-012	32067		2581	14396
C20	0010	-0124	32045		2579	14396
C20	0020	-0130	32062		2581	14395
C20	0030	-0138	32113		2585	14393
C20	0050	-0164	32205		2593	14386
C20	0074	-0156	32392		2608	14396
C20	0099	-0151	32585		2623	14405
C20	0148	-0123	33070		2662	14433
C20	0173	-0108	33583		2703	14452

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0120	32067		2581	14396	0000	00000	2200
0010	-0124	32045		2579	14396	0022	00001	2215
0020	-0130	32062		2581	14395	0044	00005	2199
0030	-0138	32113		2585	14393	0066	00010	2157
0050	-0164	32205		2593	14386	0109	00028	2079
0075	-0156	32399		2608	14396	0159	00060	1929
0100	-0151	32591		2624	14406	0206	00101	1782
0125	-0138	3279 H		2640	14419	0249	00151	1630
0150	-0124	3316 I		2669	14434	0287	00203	1353
0175	-0106	3363 B		2706	14453	0316	00252	0999

C-REF-NO 341	YR 1961	DEPTH 421	WAVES 1 32X2	AIR T -02.8	VIS
CONS. NO 044	MONTH 9	MXSAMPD 04	WAVES 2 3282	WET B -02.8	STN
LAT 73-093N	DAY 12	NO.DPTH 12	WNC-DIR 330	WW-CODE 02	
LON 89-430W	HR 03.6	W-COLOR	WND-SPD 05	CLO-TPE 6	
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 1015.	CLO-AMT 2	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
036	0000	000	31499		2531	14444
036	0010	-0010	31482		2530	14441
036	0020	-0007	31489		2530	14444
036	0030	-0026	31631		2542	14439
036	0050	-0154	32262		2597	14391
036	0075	-0160	32493		2616	14396
036	0100	-0148	32694		2632	14408
036	0146	-0123	33152		2668	14434
036	0195	-0104	33662		2709	14458
036	0244	-0082	33929		2730	14481
036	0293	-0038	34097		2742	14511
036	0391	0005	34089		2739	14547

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0000	31499		2531	14444	0000	00000	2674
0010	-0010	31482		2530	14441	0027	00001	2683
0020	-0007	31489		2530	14444	0054	00006	2678
0030	-0026	31631		2542	14439	0080	00012	2562
0050	-0154	32262		2597	14391	0127	00031	2037
0075	-0160	32493		2616	14396	0176	00062	1857
0100	-0148	32694		2632	14408	0220	00102	1703
0125	-0134	3294 B		2651	14422	0261	00148	1521
0150	-0121	33198		2672	14436	0297	00199	1322
0175	-0111	3347 D		2694	14449	0328	00250	1117
0200	-0102	33697		2712	14460	0354	00299	0944
0225	-0092	3385 B		2724	14472	0376	00348	0833
0250	-0077	33955		2732	14484	0396	00397	0755
0300	-0043 B	34107		2743	14510	0432	00497	0654
0400	0010	34067		2737	14550	0500	00746	0712

C-REF-NO 341	YR 1961	DEPTH 508	WAVES 1 XX	AIR T -03.3	VIS 9
CONS. NO 045	MONTH 9	MXSAMPD 05	WAVES 2 3242	WET B -03.8	STN
LAT 73-125N	DAY 12	NO.DPTH 13	WND-DIR 320	WW-CODE 01	
LON 90-080W	HR 05.6	W-COLOR	WND-SPD 05	CLD-TPE 7	
MARSD SQ 262	C/I 1810	W-TRNSP	BARO 1015.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
056	0000	-002	31086	864	2498	14429
056	0010	-0032	31078	855	2498	14425
056	0020	-0001	31521	886	2533	14447
056	0030	-0124	32068	793	2581	14399
056	0050	-0146	32511	711	2617	14399
056	0075	-0140	32704	688	2633	14408
056	0100	-0142	32877	661	2647	14414
056	0150	-0125	33232	617	2675	14435
056	0200	-0106	33695	599	2712	14459
056	0250	-0084	33907	564	2728	14480
056	0300	-0047	34107	529	2743	14509
056	0400	-0001	34249	529	2752	14548
056	0500	0008				

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0020	31086	864	2498	14429	0000	00000	2983
0010	-0032	31078	855	2498	14425	0030	00002	2984
0020	-0001	31521	886	2533	14447	0058	00006	2656
0030	-0124	32068	793	2581	14399	0083	00012	2195
0050	-0146	32511	711	2617	14398	0123	00028	1848
0075	-0140	32704	688	2633	14408	0168	00057	1699
0100	-0142	32877	661	2647	14414	0209	00093	1564
0125	-0135	3305 B	637	2660	14423	0247	00137	1434
0150	-0125	33232	617	2675	14435	0281	00185	1294
0175	-0116	3347 E	607 B	2694	14447	0312	00235	1112
0200	-0106	33695	599	2712	14459	0338	00285	0944
0225	-0096	3382 C	583	2721	14469	0360	00334	0853
0250	-0084	33907	564	2728	14480	0381	00385	0789
0300	-0047	34107	529	2743	14508	0417	00487	0652
0400	-0001	34249	529	2752	14548	0479	00706	0568
0500	0008							

C-REF-NO 341	YR 1961	DEPTH 360	WAVES 1 XX	AIR T -03.9	VIS 9
CONS. NO 046	MONTH 9	MXSAMPD 03	WAVES 2 3242	WET B -04.5	STN
LAT 73-15CN	DAY 12	NO.DPTH 11	WND-DIR 320	WW-CODE 01	
LON 9C-32CW	HR 07.8	W-COLOR	WND-SPD 04	CLD-TPE 7	
MARSD SQ 262	C/I 1810	W-TRNSP	BARO 1014.	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
078	0000	-002	31464		2529	14435
078	0010	-0028	31423		2526	14432
078	0020	-0098	31957		2571	14408
078	0030	-0142	32103		2584	14391
078	0050	-0158	32264		2598	14389
078	0075	-0157	32484		2615	14397
078	0100	-0142	32704		2633	14411
078	0150	-0128	33158		2669	14433
078	0200	-0102	33654		2708	14460
078	0250	-0088	33874		2726	14478
078	0300	-0045	34053		2738	14509

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0020	31464		2529	14435	0000	00000	2693
0010	-0028	31423		2526	14432	0027	00001	2721
0020	-0098	31957		2571	14408	0052	00005	2288
0030	-0142	32103		2584	14391	0075	00011	2164
0050	-0158	32264		2598	14389	0117	00028	2035
0075	-0157	32484		2615	14397	0166	00059	1864
0100	-0142	32704		2633	14411	0211	00099	1697
0125	-0134	32927		2651	14422	0252	00146	1526
0150	-0128	33158		2669	14433	0288	00197	1350
0175	-0115	3342 D		2690	14447	0319	00249	1152
0200	-0102	33654		2708	14460	0346	00300	0977
0225	-0096	3378 C		2719	14469	0370	00351	0879
0250	-0088	33874		2726	14478	0391	00403	0813
0300	-0045	34053		2738	14509	0429	00510	0694

C-REF-NO 341	YR 1961	DEPTH 285	WAVES 1 X1	AIR T -04.2	VIS 8
CONS. NO 047	MONTH 9	MXSAMPD 02	WAVES 2 3042	WET B -04.5	STN
LAT 73-170N	DAY 12	NO.DPTH 10	WND-DIR 300	WW-CODE 01	
LON 90-580W	HR 09.2	W-COLOR	WND-SPD 04	CLD-TPE	
MARSD SQ 262	C/I 1810	W-TRNSP	BARO 1015.	CLD-AMT	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
092	0000	-004	31300	828	2516	14423
092	0010	-0048	31300	837	2517	14421
092	0020	-0039	31419	828	2526	14428
092	0030	-0097	31932	811	2569	14410
092	0050	-0150	32210	705	2593	14392
092	0075	-0156	32437	617	2611	14397
092	0100	-0154	32637	697	2628	14405
092	0150	-0139	32990	635	2656	14425
092	0200	-0110	33488	564	2695	14454
092	0250	-0097	33859	573	2725	14474

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0040	31300	828	2516	14423	0000	00000	2812
0010	-0048	31300	837	2517	14421	0028	00001	2809
0020	-0039	31419	828	2526	14428	0056	00006	2720
0030	-0097	31932	811	2569	14410	0081	00012	2307
0050	-0150	32210	705	2593	14392	0125	00030	2078
0075	-0156	32437	617	2611	14397	0176	00062	1900
0100	-0154	32637	697	2628	14405	0221	00103	1745
0125	-0148	3281 C	685 I	2641	14414	0264	00151	1613
0150	-0139	32990	635	2656	14425	0303	00206	1475
0175	-0124	3324 D	595 D	2675	14440	0337	00264	1288
0200	-0110	33488	564	2695	14454	0368	00321	1101
0225	-0106	3365 F	571 F	2708	14462	0394	00378	0978
*0250	-0097	33859	573	2725	14474	0416	00433	0820

C-REF-NO 341 YR 1961 DEPTH 241 WAVES 1 XX AIR T -01.7 VIS 6
 CONS. NO 048 MONTH 9 MXSAMPD 02 WAVES 2 2442 WET B -02.1 STN
 LAT 73-520N DAY 13 NO.DPTH 9 WND-DIR 220 WW-CODE 71
 LUN 90-C70W HR 00.9 W-COLOR WND-SPD 03 CLD-TPE
 MARSD SQ 262 C/I 1810 W-TRNSP BARO 1007. CLD-AMT 9 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
009	0000	-008	31308		2518	14404
009	0010	-0092	31304		2518	14400
009	0020	-0088	31374		2524	14405
009	0030	-0086	31457		2530	14409
009	0049	-0094	31605		2543	14410
009	0074	-0115	32201		2591	14413
009	0099	-0121	32515		2617	14418
009	0148	-0121	32713		2633	14429
009	0197	-0120	33067		2662	14443

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0080	31308		2518	14404	0000	00000	2793
0010	-0092	31304		2518	14400	0028	00001	2792
0020	-0088	31374		2524	14405	0056	00006	2739
0030	-0086	31457		2530	14409	0083	00013	2675
0050	-0095	3163 B		2544	14410	0136	00034	2540
0075	-0115	32218		2593	14413	0194	00071	2079
0100	-0121	32521		2617	14419	0243	00114	1843
0125	-0122	3265 I		2627	14424	0288	00166	1746
0150	-0123	3283 I		2643	14430	0330	00226	1601
0175	-0122	3297 I		2654	14437	0369	00291	1492
*0200	-0120	3308 C		2662	14444	0406	00361	1411

C-REF-NO 341	YR 1961	DEPTH 347	WAVES 1	XX	AIR T	VIS 6
CONS. NO 049	MONTH 9	MXSAMPD 03	WAVES 2	XX	WET B	STN
LAT 73-480N	DAY 13	NO. OPTH 11	WND-DIR		WW-CODE	
LON 89-400W	HR 03.7	W-COLOR	WND-SPD	05	CLD-TPE	
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 1005.		CLD-AMT 9	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
037	0000	-010	31097		2502	14392
037	0010	-0079	31678		2548	14412
037	0020	-0092	31832		2561	14409
037	0030	-0094	31926		2569	14411
037	0050	-0099	32135		2586	14415
037	0075	-0078	32766		2636	14438
037	0100	-0117	32888		2647	14426
037	0148	-0122	33040		2659	14433
037	0197	-0118	33269		2678	14447
037	0246	-0142	33697		2713	14450
037	0295	-0094	33955		2732	14484

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0100	31097		2502	14392	0000	00000	2950
0010	-0079	31678		2548	14412	0027	00001	2509
0020	-0092	31832		2561	14409	0052	00005	2386
0030	-0094	31926		2569	14411	0076	00011	2313
0050	-0099	32135		2586	14415	0121	00029	2149
0075	-0078	32766		2636	14438	0169	00059	1671
0100	-0117	32888		2647	14426	0209	00096	1563
0125	-0126	3297 C		2654	14427	0248	00140	1496
0150	-0122	33047		2660	14434	0285	00192	1437
0175	-0119	3315 B		2668	14441	0320	00251	1358
0200	-0120	3330 B		2680	14446	0353	00314	1245
0225	-0134 B	3351 E		2698	14447	0382	00377	1072
0250	-0124 D	3366 I		2710	14458	0408	00440	0961

C-REF-NO 341 YR 1961 DEPTH 474 WAVES 1 XX AIR T -01.9 VIS 8
 CONS. NO 050 MONTH 9 MXSAMPD 04 WAVES 2 XX WET B -02.6 STM
 LAT 73-43CN DAY 13 NO.DPTH 13 WND-DIR 200 WW-CODE 03
 LON 89-160W HR 05.7 W-COLOR WND-SPD 03 CLD-TPE 5
 MARSD SQ 261 C/I 1810 W-TRNSP BARO 1004. CLD-AMT 8 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
057	0000	-004	31164		2505	14421
057	0010	-0051	31169		2506	14418
057	0020	-0055	31225		2511	14418
057	0030	-0057	31584		2540	14424
057	0050	-0129	32312		2601	14404
057	0075	-0132	32716		2633	14412
057	0100	-0132	32890		2648	14419
057	0148	-0120	33230		2675	14437
057	0197	-0112	33589		2704	14454
057	0247	-0080	33959		2732	14482
057	0297	-0044	34098		2742	14509
057	0396	0010	34293		2755	14553
057	0446	0015	34316		2757	14564

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0040	31164		2505	14421	0000	00000	2916
0010	-0051	31169		2506	14418	0029	00001	2908
0020	-0055	31225		2511	14418	0058	00006	2863
0030	-0057	31584		2540	14424	0086	00013	2586
0050	-0129	32312		2601	14404	0132	00031	2005
0075	-0132	32716		2633	14412	0178	00061	1692
0100	-0132	32890		2648	14419	0219	00097	1557
0125	-0126	33066		2662	14428	0257	00140	1422
0150	-0120	33245		2676	14438	0291	00188	1286
0175	-0117	33427		2691	14446	0322	00239	1146
0200	-0110	33614		2706	14455	0349	00291	1004
0225	-0096	3381 C		2721	14469	0372	00342	0859
0250	-0078	33971		2733	14484	0393	00391	0743
0300	-0042	34106		2743	14511	0428	00490	0656
0400	0008	3429 B		2755	14553	0488	00705	0543

C-REF-NO 341	YR 1961	DEPTH 395	WAVES 1 XX	AIR T -01.7	VIS 8
CONS. NO 051	MONTH 9	MXSAMPD 04	WAVES 2 2942	WET B -02.3	STN
LAT 73-380N	DAY 13	NO.DPTH 12	WND-DIR 290	WW-CODE 03	
LON 88-520W	HR 07.7	W-COLOR	WND-SPD 03	CLD-TPE 5	
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 1003.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
077	0000	-007	31064		2498	14406
077	0010	-0074	31036		2496	14405
077	0020	-0068	31169		2507	14411
077	0030	-0057	31674		2547	14425
077	0050	-0166	32192		2592	14385
077	0075	-0148	32385		2607	14400
077	0100	-0127	32672		2630	14418
077	0150	-0121	32968		2654	14433
077	0200	-0116	33253		2676	14448
077	0250	-0119	33747		2717	14462
077	0300	-0064	34001		2735	14499
077	0380		34214			

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0070	31064		2498	14406	0000	00000	2984
0010	-0074	31036		2496	14405	0030	00002	3003
0020	-0068	31169		2507	14411	0060	00006	2902
0030	-0057	31674		2547	14425	0087	00013	2518
0050	-0166	32192		2592	14385	0133	00032	2089
0075	-0148	32385		2607	14400	0184	00064	1942
0100	-0127	32672		2630	14418	0230	00105	1726
0125	-0121	3284 E		2644	14427	0272	00153	1594
0150	-0121	32968		2654	14433	0311	00208	1497
0175	-0118	3310 C		2664	14441	0348	00268	1397
0200	-0116	33253		2676	14448	0381	00333	1278
0225	-0121	3350 F		2697	14453	0411	00398	1085
0250	-0119	33747		2717	14462	0436	00458	0897
0300	-0064	34001		2735	14499	0477	00573	0725

C-REF-NO 341 YR 1961 DEPTH 267 WAVES 1 23X1 AIR T -02.0 VIS 6
 CONS. NO 052 MONTH 9 MXSAMPD 02 WAVES 2 2342 WET B -02.2 STN
 LAT 73-330N DAY 13 NO.DPTH 9 WND-DIR 240 WW-CODE 02
 LON 88-260W HR 09.3 W-COLOR WND-SPD 05 CLD-TPE 0
 MARSD SQ 261 C/I 1810 W-TRNSP BARO 1003. CLD-AMT 8 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
C93	0000	-004	31297		2516	14423
C93	0010	-0053	31280		2515	14418
C93	0020	-0072	31877		2564	14419
C93	0030	-0118	32031		2578	14402
C93	0050	-0163	32193		2592	14386
C93	0075	-0161	32395		2608	14394
C93	0100	-0152	32629		2627	14406
C93	0150	-0128	33014		2657	14431
C93	0200	-0119	33411		2689	14449

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0040	31297		2516	14423	0000	00000	2814
0010	-0053	31280		2515	14418	0028	00001	2822
0020	-0072	31877		2564	14419	0054	00005	2358
0030	-0118	32031		2578	14402	0077	00011	2225
0050	-0163	32193		2592	14386	0121	00029	2089
0075	-0161	32395		2608	14394	0171	00061	1932
0100	-0152	32629		2627	14406	0218	00102	1752
0125	-0140	3283 B		2643	14418	0260	00151	1601
0150	-0128	33014		2657	14431	0299	00205	1460
0175	-0124	3323 C		2675	14439	0333	00263	1297
*0200	-0119	33411		2689	14449	0364	00322	1156

C-REF-NO 341 YR 1961 DEPTH 296 WAVES 1 30X1 AIR T -02.6 VIS 6
 CONS. NO 053 MONTH 9 MXSAMPD 03 WAVES 2 3042 WET B -02.7 STN
 LAT 73-500N DAY 13 NO.DPTH 11 WND-DIR 010 WW-CODE 02
 LUN 87-100W HR 13.0 W-COLOR WND-SPD 02 CLD-TPE 0
 MARSD SQ 261 C/I 1810 W-TRNSP BARO 1002. CLD-AMT 8 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
130	0000	-004	31340		2519	14424
130	0010	-0047	31325		2519	14422
130	0020	-0072	31792		2557	14418
130	0030	-0164	32117		2586	14381
130	0050	-0160	32322		2602	14389
130	0075	-0158	32528		2619	14397
130	0100	-0147	32739		2636	14410
130	0150	-0120	33149		2668	14436
130	0200	-0132	33379		2687	14442
130	0250	-0100	33911		2729	14473
130	0275	-0083	33968		2733	14486

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0040	31340		2519	14424	0000	00000	2781
0010	-0047	31325		2519	14422	0028	00001	2790
0020	-0072	31792		2557	14418	0054	00005	2423
0030	-0164	32117		2586	14381	0077	00011	2149
0050	-0160	32322		2602	14389	0119	00028	1990
0075	-0158	32528		2619	14397	0167	00059	1830
0100	-0147	32739		2636	14409	0211	00098	1669
0125	-0131	3296 B		2653	14424	0251	00144	1505
0150	-0120	33149		2668	14436	0287	00195	1359
0175	-0126	3326 G		2677	14439	0320	00250	1274
0200	-0132	33379		2687	14442	0351	00309	1176
0225	-0119	3366 I		2710	14456	0378	00368	0964
0250	-0100	33911		2729	14473	0400	00421	0779

C-REF-NO 341	YR 1961	DEPTH 419	WAVES 1 32X2	AIR T -03.5	VIS 9
CONS. NO 054	MONTH 9	MXSAMPD 04	WAVES 2 3282	WET B -03.8	STN
LAT 74-040N	DAY 13	NO.DPTH 12	WND-DIR 310	WW-CODE 01	
LON 87-100W	HR 15.2	W-COLOR	WND-SPD 03	CLD-TPE 5	
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 1002.	CLD-AMT 6	HW

O B S E R V E D

	GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
	152	0000	-003	31389	828	2523	14429
	152	0010	-0035	31383	837	2523	14428
	152	0020	-0028	31457	837	2528	14434
	152	0030	-0124	32472	784	2614	14405
	152	0050	-0137	32828	688	2643	14407
	152	0075	-0141	33031	652	2659	14412
3	152	0100	-0126	32818	705	2642	14421
	152	0148	-0128	33568	652	2702	14438
	152	0197	-0150	33772	705	2719	14439
	152	0247	-0124	33904	652	2729	14461
	152	0297	-0060	34050	599	2739	14501
	152	0396	0021	34349	555	2759	14559

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0030	31389	828	2523	14429	0000	00000	2747
0010	-0035	31383	837	2523	14428	0028	00001	2749
0020	-0028	31457	837	2528	14434	0055	00006	2695
0030	-0124	32472	784	2614	14405	0078	00011	1885
0050	-0137	32828	688	2643	14407	0113	00025	1607
0075	-0141	33031	652	2659	14412	0152	00050	1448
0100	-0126	32818	705	2642	14420	0190	00085	1614
0125	-0123	3315 I	684 I	2668	14431	0228	00128	1361
0150	-0129	33583	654 B	2704	14438	0258	00170	1025
0175	-0142	3372 G	681 I	2715	14438	0282	00210	0914
0200	-0150	33781	703	2720	14439	0305	00253	0863
0225	-0141	33850	682 E	2726	14449	0326	00299	0812
0250	-0120	33913	649	2730	14463	0346	00348	0770
0300	-0071 C	34056	602 D	2740	14497	0382	00451	0680
0400	0025	34362	554	2760	14562	0442	00660	0498

C-REF-NO 341	YR 1961	DEPTH 430	WAVES 1 XX	AIR T -03.2	VIS 9
CONS. NO 055	MONTH 9	MXSAMPD 04	WAVES 2 2742	WET B -03.4	STN
LAT 74-130N	DAY 13	NO.DPTH 12	WND-DIR 140	WW-CODE 01	
LON 87-10CW	HR 17.4	W-COLOR	WND-SPD 03	CLD-TPE 5	
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 1002.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
174	0000	-002	31418	854	2525	14434
174	0010	-0024	31437	845	2527	14434
174	0020	-0084	32320	845	2600	14420
174	0030	-0041	32669	721	2627	14447
174	0050	-0100	32922	686	2649	14426
174	0075	-0126	33079	642	2663	14420
174	0100	-0122	33198	616	2672	14428
174	0150	-0132	33586	669	2704	14437
174	0200	-0150	33784	677	2720	14439
174	0250	-0126	33894	634	2729	14461
174	0300	-0056	34062	590	2740	14504
174	0400	0016	34317	546	2757	14557

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0020	31418	854	2525	14434	0000	00000	2729
0010	-0024	31437	845	2527	14434	0027	00001	2712
0020	-0084	32320	845	2600	14420	0051	00005	2014
0030	-0041	32669	721	2627	14447	0070	00010	1761
0050	-0100	32922	686	2649	14426	0103	00023	1546
0075	-0126	33079	642	2663	14420	0141	00047	1416
0100	-0122	33198	616	2672	14428	0175	00078	1324
0125	-0125	3339 E	637 H	2688	14433	0207	00114	1174
0150	-0132	33586	669	2704	14437	0234	00153	1021
0175	-0143	3370 B	679	2714	14437	0259	00193	0927
0200	-0150	33784	677	2720	14439	0281	00237	0861
0225	-0144	3384 B	659 B	2725	14447	0303	00283	0818
0250	-0126	33894	634	2729	14460	0323	00332	0782
0300	-0056	34062	590	2740	14504	0360	00436	0682
0400	0016	34317	546	2757	14557	0421	00651	0526

C-REF-NO 341	YR 1961	DEPTH 430	WAVES 1 XX	AIR T -02.2	VIS 9
CONS. NO 056	MONTH 9	MXSAMPD 04	WAVES 2 XX	WET B -02.8	STN
LAT 74-245N	DAY 13	NO.DPTH 12	WND-DIR 290	WW-CODE 01	
LON 87-100W	HR 19.5	W-COLOR	WND-SPD 03	CLD-TPE 2	
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 1002.	CLD-AMT 3	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
195	0000	001	31587		2537	14450
195	0010	0011	31479		2529	14451
195	0020	-0072	32214		2591	14424
195	0030	-0075	32606		2623	14430
195	0050	-0102	32890		2647	14425
195	0075	-0127	33050		2660	14419
195	0100	-0124	33176		2670	14427
195	0150	-0127	33527		2699	14438
195	0200	-0135	33765		2718	14446
195	0250	-0108	33913		2730	14469
195	0300	-0066	34036		2738	14499
195	0380	0002	34255		2753	14546

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0010	31587		2537	14450	0000	00000	2611
0010	0011	31479		2529	14451	0027	00001	2694
0020	-0072	32214		2591	14424	0051	00005	2099
0030	-0075	32606		2623	14430	0070	00010	1797
0050	-0102	32890		2647	14425	0104	00024	1570
0075	-0127	33050		2660	14419	0142	00048	1438
0100	-0124	33176		2670	14426	0177	00079	1340
0125	-0124	3335 D		2685	14433	0209	00116	1205
0150	-0127	33527		2699	14438	0238	00156	1068
0175	-0133	33659		2710	14441	0263	00199	0964
0200	-0135	33765		2718	14446	0287	00243	0880
0225	-0125	33846		2725	14456	0308	00290	0821
0250	-0108	33913		2730	14469	0328	00339	0775
0300	-0066	34036		2738	14499	0365	00443	0697

C-REF-NO 341	YR 1961	DEPTH 477	WAVES 1	XX	AIR T -02.3	VIS 6
CONS. NO 057	MONTH 9	MXSAMPD 04	WAVES 2	XX	WET B -02.7	STN
LAT 74-280N	DAY 14	NO.DPTH 12	WND-DIR		WW-CODE 45	
LON 84-000W	HR 01.0	W-COLOR	WND-SPD		CLD-TPE	
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 1002.		CLD-AMT 9	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
010	0000	-001	31615		2540	14441
010	0010	0023	31680		2544	14459
010	0020	0064	31920		2562	14483
010	0030	-0076	32082		2581	14422
010	0050	0058	32728		2627	14496
010	0075	-0120	32970		2654	14421
010	0100	-0131	33117		2666	14422
010	0150	-0118	33487		2695	14442
010	0200	-0132	33717		2714	14447
010	0250	-0132	33833		2724	14457
010	0300	-0130	33891		2729	14467
010	0400	-0003	34270		2754	14548

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0010	31615		2540	14441	0000	00000	2582
0010	0023	31680		2544	14459	0026	00001	2545
0020	0064	31920		2562	14483	0051	00005	2381
0030	-0076	32082		2581	14422	0074	00011	2198
0050	0058	32728		2627	14496	0113	00027	1761
0075	-0120	32970		2654	14421	0155	00053	1501
0100	-0131	33117		2666	14422	0191	00085	1384
0125	-0126	3330 C		2681	14432	0224	00123	1240
0150	-0118	33487		2695	14442	0253	00165	1101
0175	-0124	33618		2706	14445	0280	00209	0998
0200	-0132	33717		2714	14447	0304	00255	0918
0225	-0133	33786		2720	14451	0327	00304	0864
0250	-0132	33833		2724	14457	0348	00356	0827
0300	-0130	33891		2729	14467	0388	00470	0780
0400	-0003	34270		2754	14548	0456	00706	0551

C-REF-NO 341	YR 1961	DEPTH 644	WAVES 1 XX	AIR T -02.7	VIS 6
CONS. NO 058	MONTH 9	MXSAMPD 06	WAVES 2 XX	WET B -02.7	STN
LAT 74-150N	DAY 14	NO.DPTH 14	WND-DIR	WW-CODE 72	
LON 84-000W	HR 03.4	W-COLOR	WND-SPD	CLD-TPE 7	
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 1002.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
034	0000	-002	31443		2527	14434
034	0010	-0033	31412		2525	14429
034	0020	-0148	32145		2588	14387
034	0030	-0150	32301		2600	14390
034	0050	-0131	32660		2629	14408
034	0075	-0138	32906		2649	14412
034	0100	-0132	33052		2661	14421
034	0150	-0126	33427		2691	14437
034	0200	-0146	33745		2717	14441
034	0234	-0118	33868		2726	14461
034	0282	-0096	33994		2736	14481
034	0378	-0002	34242		2752	14544
034	0475	0030	34379		2761	14577
034	0573	0036	34435		2765	14597

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0020	31443		2527	14434	0000	00000	2710
0010	-0033	31412		2525	14429	0027	00001	2728
0020	-0148	32145		2588	14387	0052	00005	2131
0030	-0150	32301		2600	14390	0073	00010	2010
0050	-0131	32660		2629	14408	0110	00026	1737
0075	-0138	32906		2649	14412	0152	00052	1545
0100	-0132	33052		2661	14421	0189	00085	1433
0125	-0127	3324 B		2675	14430	0224	00125	1292
0150	-0126	33427		2691	14437	0254	00168	1145
0175	-0139 B	3360 B		2705	14438	0281	00213	1007
0200	-0146	33745		2717	14441	0305	00259	0892
0225	-0127	33840		2724	14455	0327	00306	0824
0250	-0110	33913		2730	14468	0347	00355	0774
0300	-0079	34045		2739	14493	0384	00458	0685
0400	0009	34282		2754	14553	0446	00679	0549
0500	0041	34407		2763	14586	0498	00916	0474

C-REF-NO 341	YR 1961	DEPTH 622	WAVES 1	XX	AIR T -01.8	VIS 8
CONS. NO 059	MONTH 9	MXSAMPD 06	WAVES 2	XX	WET B -01.9	STN
LAT 74-C1CN	DAY 14	NO.DPTH 14	WNC-DIR 360	WW-CODE 02		
LON 84-00CW	HR 07.1	W-COLOR	WND-SPD 03	CLD-TPE 7		
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 1002.	CLD-AMT 8	HW	

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
071	0000	000	31394		2522	14443
071	0010	-0003	31383		2522	14443
071	0020	-0002	31418		2524	14446
071	0030	-0004	32032		2574	14455
071	0050	-0122	32631		2626	14412
071	0075	-0135	32817		2642	14412
071	0100	-0130	33055		2661	14422
071	0150	-0092	33420		2689	14453
071	0200	-0144	33741		2717	14442
071	0250	-0143	33862		2727	14452
071	0300	-0082	34003		2736	14491
071	0400	0054	34308		2754	14574
071	0500	0071	34435		2763	14600
071	0580	0025	34444		2767	14593

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0000	31394		2522	14443	0000	00000	2755
0010	-0003	31383		2522	14443	0028	00001	2761
0020	-0002	31418		2524	14446	0055	00006	2734
0030	-0004	32032		2574	14455	0081	00012	2264
0050	-0122	32631		2626	14412	0121	00028	1762
0075	-0135	32817		2642	14412	0164	00055	1614
0100	-0130	33055		2661	14422	0202	00089	1431
0125	-0108 B	3325 B		2676	14439	0236	00129	1288
0150	-0092	33420		2689	14453	0267	00172	1162
0175	-0116 B	3360 B		2704	14449	0295	00218	1018
0200	-0144	33741		2717	14442	0319	00264	0896
0225	-0151	3381 C		2723	14444	0340	00311	0837
0250	-0143	33862		2727	14452	0361	00362	0801
0300	-0082	34003		2736	14491	0399	00469	0715
0400	0054	34308		2754	14574	0464	00696	0557
0500	0071	34435		2763	14600	0516	00935	0474

C-REF-NO 341	YR 1961	DEPTH 314	WAVES 1 34X1	AIR T -02.1	VIS 8
CONS. NO 060	MONTH 9	MXSAMPD 02	WAVES 2 3442	WET B -02.8	STN
LAT 73-475N	DAY 14	NO.DPTH 10	WND-DIR 340	WW-CODE	
LON 84-000W	HR 09.6	W-COLOR	WND-SPD 04	CLD-TPE 5	
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 1003.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
096	0000	-001	31294		2515	14437
096	0010	-0024	31271		2513	14432
096	0020	-0054	31802		2557	14427
096	0030	-0142	32079		2582	14391
096	0050	-0165	32257		2597	14386
096	0075	-0146	32549		2620	14403
096	0100	-0131	32917		2650	14420
096	0150	-0097	33359		2684	14450
096	0200	-0148	33750		2718	14440
096	0250	-0065	34049		2739	14491

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0010	31294		2515	14437	0000	00000	2827
0010	-0024	31271		2513	14432	0028	00001	2839
0020	-0054	31802		2557	14427	0055	00005	2421
0030	-0142	32079		2582	14391	0078	00011	2183
0050	-0165	32257		2597	14386	0121	00029	2039
0075	-0146	32549		2620	14403	0169	00059	1817
0100	-0131	32917		2650	14420	0211	00097	1537
0125	-0109 B	3317 E		2669	14437	0248	00139	1352
0150	-0097	33359		2684	14450	0280	00184	1207
0175	-0126 C	33563		2702	14444	0308	00231	1039
0200	-0148	33750		2718	14440	0333	00277	0887
0225	-0091 E	33905		2728	14473	0354	00323	0789
*0250	-0065	34049		2739	14491	0372	00368	0689

C-REF-NO 341	YR 1961	DEPTH 622	WAVES 1 28X1	AIR T -02.0	VIS 8
CONS. NO 061	MONTH 9	MXSAMPD 06	WAVES 2 2642	WET B -02.4	STN
LAT 73-485N	DAY 14	NO.DPTH 14	WND-DIR 340	WW-CODE 02	
LON 82-425W	HR 12.2	W-COLOR	WND-SPD 03	CLD-TPE 5	
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 1004.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
122	0000	000	31532	721	2533	14445
122	0010	-0006	31559	730	2536	14444
122	0020	0022	31835	800	2557	14462
122	0030	0040	31931	791	2564	14474
122	0050	0054	31977	800	2567	14484
122	0075	0122	32369	765	2594	14524
122	0100	0141	32625	756	2614	14540
122	0150	-0071	33186	713	2670	14460
122	0200	-0108	33498	695	2696	14455
122	0250	-0133	33695	677	2713	14454
122	0300	-0071	33896	607	2727	14495
122	0400	-0014	34146	563	2745	14541
122	0500	0031	34352	546	2759	14581
122	0600	0026	34395	546	2763	14596

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0000	31532	721	2533	14445	0000	00000	2649
0010	-0006	31559	730	2536	14444	0027	00001	2626
0020	0022	31835	800	2557	14462	0052	00005	2426
0030	0040	31931	791	2564	14474	0076	00011	2360
0050	0054	31977	800	2567	14484	0123	00031	2331
0075	0122	32369	765	2594	14524	0179	00066	2070
0100	0141	32625	756	2614	14540	0228	00110	1888
0125	0045 G	3292 D	735 C	2643	14505	0272	00161	1609
0150	-0071	33186	713	2670	14460	0310	00213	1349
0175	-0101 B	3337 B	702	2685	14452	0342	00266	1199
0200	-0108	33498	695	2696	14455	0371	00322	1094
0225	-0127	3360 B	689 B	2705	14452	0397	00379	1005
0250	-0133	33695	677	2713	14454	0422	00439	0932
0300	-0071	33896	607	2727	14494	0465	00561	0801
0400	-0014	34146	563	2745	14541	0538	00818	0638
0500	0031	34352	546	2759	14581	0596	01083	0509
0600	0026	34395	546	2763	14596	0646	01363	0473

C-REF-NO 341	YR 1961	DEPTH 686	WAVES 1 08X2	AIR T -02.6	VIS 6
CONS. NO 062	MONTH 9	MXSAMPD 06	WAVES 2 0882	WET B -02.6	STN
LAT 74-010N	DAY 14	NO.DPTH 15	WND-DIR 090	WW-CODE 02	
LON 82-425W	HR 15.5	W-COLOR	WND-SPD 05	CLD-TPE 5	
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 1004.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
155	0000	004	31959	780	2566	14469
155	0010	0043	31939	800	2564	14472
155	0020	0041	31942	800	2564	14473
155	0030	0047	31977	791	2567	14477
155	0050	0114	32275	774	2587	14515
155	0075	0132	32464	744	2601	14530
155	0100	0138	32580	739	2610	14538
155	0150	-0037	33074	713	2659	14474
155	0200	-0096	33393	704	2687	14459
155	0250	-0124	33636	694	2708	14458
155	0300	-0146	33817	668	2723	14458
155	0400	-0039	34107	537	2743	14529
155	0500	0037	34338	546	2757	14584
155	0600	0021	34431	546	2766	14594
155	0650	0004	34448	572	2768	14595

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0040	31959	780	2566	14469	0000	00000	2340
0010	0043	31939	800	2564	14472	0024	00001	2356
0020	0041	31942	800	2564	14473	0047	00005	2353
0030	0047	31977	791	2567	14477	0071	00011	2329
0050	0114	32275	774	2587	14515	0116	00029	2137
0075	0132	32464	744	2601	14530	0168	00062	2004
0100	0138	32580	739	2610	14538	0217	00107	1920
0125	0059 E	3282 G	726 B	2634	14510	0263	00159	1693
0150	-0037	33074	713	2659	14474	0302	00214	1448
0175	-0076	3325 B	708	2675	14462	0337	00272	1297
0200	-0096	33393	704	2687	14459	0368	00331	1178
0225	-0112	33523	700	2698	14457	0397	00393	1072
0250	-0124	33636	694	2708	14458	0422	00456	0980
0300	-0146	33817	668	2723	14458	0468	00584	0831
0400	-0039	34107	537	2743	14529	0543	00849	0654
0500	0037	34338	546	2757	14583	0603	01121	0524
0600	0021	34431	546	2766	14594	0651	01395	0443

C-REF-NO 341	YR 1961	DEPTH 793	WAVES 1 XX	AIR T -02.8	VIS 8
CONS. NO 063	MONTH 9	MXSAMPD 05	WAVES 2 0942	WET B -03.2	STN
LAT 74-150N	DAY 14	NO.DPTH 13	WND-DIR 090	WW-CODE 70	
LON 82-440W	HR 18.9	W-COLOR	WND-SPD 07	CLD-TPE 7	
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 1004.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
189	0000	-003	31475	844	2530	14430
189	0010	-0038	31453	844	2529	14428
189	0020	-0125	32178	756	2590	14399
189	0030	-0164	32309	739	2601	14384
189	0050	-0140	32550	704	2620	14402
189	0075	-0129	32833	669	2643	14415
189	0100	-0128	33043	651	2660	14423
189	0150	-0117	33242	634	2676	14439
189	0200	-0138	33684	404	2712	14444
189	0250	-0148	33818	669	2723	14449
189	0300	-0144	33888	651	2729	14460
189	0400	-0029		616		
189	0500	0083	34190	546	2743	14602

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0030	31475	844	2530	14430	0000	00000	2681
0010	-0038	31453	844	2529	14428	0027	00001	2695
0020	-0125	32178	756	2590	14399	0051	00005	2111
0030	-0164	32309	739	2601	14384	0072	00010	2001
0050	-0140	32550	704	2620	14402	0110	00026	1820
0075	-0129	32833	669	2643	14415	0153	00053	1604
0100	-0128	33043	651	2660	14423	0192	00087	1441
0125	-0121	3315 H	654 I	2668	14431	0227	00128	1363
0150	-0117	33242	634	2676	14439	0261	00175	1289
0175	-0126	3347 H	501 I	2694	14442	0291	00225	1112
0200	-0138	33684	404	2712	14444	0317	00275	0941
0225	-0145	3377 C	523 I	2719	14446	0340	00324	0869
0250	-0148	33818	669	2723	14449	0361	00377	0832
0300	-0144	33888	651	2729	14460	0402	00491	0777
0400	-0029	3408 E	616	2740	14533	0475	00753	0681
0500	0083	34190	546	2743	14602	0543	01068	0667

C-REF-NO 341 YR 1961 DEPTH 662 WAVES 1 XX AIR T -04.4 VIS 6
 CONS. NO 064 MONTH 9 MXSAMPD 06 WAVES 2 XX WET B -04.4 STN
 LAT 74-285N DAY 14 NO.DPTH 14 WND-DIR 340 WW-CODE 70
 LON 82-470W HR 22.1 W-COLOR WND-SPD 03 CLD-TPE 0
 MARSD SQ 261 C/I 1810 W-TRNSP BARO 1005. CLD-AMT 8 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
221	0000	-005	31451	827	2529	14420
221	0010	-0061	31446	818	2529	14417
221	0020	-0037	31513	826	2533	14431
221	0030	0007	31735	809	2549	14456
221	0050	0006	32325	739	2597	14467
221	0075	0086	32634	721	2618	14512
221	0100	0068	32889	721	2639	14511
221	0150	-0130	33129	634	2667	14431
221	0200	-0128	33599	669	2705	14447
221	0244	-0149	33830	669	2724	14448
221	0293	-0124	33933	634	2732	14469
221	0391	-0008	34246	581	2752	14544
221	0489	0018	34364	572	2760	14573
221	0587	0022	34442	555	2767	14593

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0050	31451	827	2529	14420	0000	00000	2693
0010	-0061	31446	818	2529	14417	0027	00001	2692
0020	-0037	31513	826	2533	14431	0054	00006	2648
0030	0007	31735	809	2549	14456	0080	00012	2495
0050	0006	32325	739	2597	14467	0126	00030	2043
0075	0086	32634	721	2618	14512	0174	00061	1848
0100	0068	32889	721	2639	14511	0218	00101	1643
0125	-0030 F	3302 H	677 I	2654	14472	0258	00146	1496
0150	-0130	33129	634	2667	14431	0294	00197	1371
0175	-0140 C	3336 F	646 G	2686	14434	0326	00250	1187
0200	-0128	33599	669	2705	14447	0354	00303	1010
0225	-0141	33749	673	2717	14447	0378	00355	0889
0250	-0148	3385 B	666	2725	14449	0399	00407	0811
0300	-0116	3396 B	629	2733	14474	0438	00517	0736
0400	-0003	34262	579	2753	14547	0504	00747	0557
0500	0031 B	3440 E	562 E	2763	14582	0556	00985	0472

C-REF-NO 341 YR 1961 DEPTH 823 WAVES 1 XX AIR T -03.9 VIS 8
 CONS. NO 065 MONTH 9 MXSAMPD 07 WAVES 2 XX WET B -04.3 STN
 LAT 73-563N DAY 15 NO.DPTH 16 WND-DIR 180 WW-CODE 01
 LON 79-565W HR 10.8 W-COLOR WND-SPD 03 CLD-TPE 4
 MARSD SQ 260 C/I 1810 W-TRNSP BARO 1004. CLD-AMT 1 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
108	0000	-010	31493		2534	14398
108	0010	0002	31960		2568	14453
108	0020	0096	32736		2625	14509
108	0030	0126	32914		2638	14526
108	0050	-0002	33379		2682	14478
108	0075	-0125	33617		2706	14428
108	0100	-0138	33701		2713	14427
108	0150	-0150	33809		2722	14431
108	0200	-0118	33934		2732	14457
108	0250	-0063	34035		2738	14492
108	0300	0002	34158		2745	14532
108	0400	0022	34336		2758	14560
108	0500	0067	34444		2764	14599
108	0600	0039	34446		2766	14603
108	0700	0009	34449		2768	14606
108	0750	-0001	34458		2769	14610

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0100	31493		2534	14398	0000	00000	2646
0010	0002	31960		2568	14453	0025	00001	2322
0020	0096	32736		2625	14508	0046	00004	1776
0030	0126	32914		2638	14526	0063	00009	1659
0050	-0002	33379		2682	14478	0092	00020	1235
0075	-0125	33617		2706	14428	0120	00038	1004
0100	-0138	33701		2713	14427	0145	00060	0934
0125	-0148	3376 B		2718	14428	0168	00086	0885
0150	-0150	33809		2722	14431	0189	00117	0845
0175	-0138	33872		2727	14442	0210	00151	0799
0200	-0118	33934		2732	14456	0230	00189	0757
0225	-0093	33985		2735	14473	0248	00230	0727
0250	-0063	34035		2738	14492	0266	00274	0701
0300	0002	34158		2745	14532	0300	00369	0640
0400	0022	34336		2758	14560	0359	00576	0516
0500	0067	34444		2764	14598	0408	00803	0464
0600	0039	34446		2766	14602	0454	01063	0444
0700	0009	34449		2768	14605	0498	01354	0421

C-REF-NO 341	YR 1961	DEPTH 814	WAVES 1	XX	AIR T -00.8	VIS 9
CONS. NO 066	MONTH 9	MXSAMPD 08	WAVES 2	XX	WET B -02.4	STN
LAT 74-070N	DAY 15	NO.DPTH 16	WND-DIR		WW-CODE C3	
LON 79-30CW	HR 13.6	W-COLOR	WND-SPD		CLD-TPE 4	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 1004.		CLD-AMT 3	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
136	0000	002	32395	809	2602	14466
136	0010	0052	32478	774	2607	14483
136	0020	0170	32943	791	2637	14544
136	0030	0079	33179	756	2662	14509
136	0050	-0108	33500	756	2696	14430
136	0075	-0135	33639	678	2708	14424
136	0100	-0132	33742	686	2717	14431
136	0150	-0144	33866	669	2727	14435
136	0200	-0106	33966	616	2734	14463
136	0250	-0014	34144	599	2744	14516
136	0300	0015	34250	555	2751	14539
136	0400	0045	34392	546	2761	14571
136	0500	0039	34445	546	2766	14586
136	0600	0020	34442	546	2767	14594
136	0700	0004	34451	546	2768	14603
136	0775	0002	34452	546	2768	14615

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0020	32395	809	2602	14466	0000	00000	1998
0010	0052	32478	774	2607	14483	0020	00001	1949
0020	0170	32943	791	2637	14544	0038	00004	1665
0030	0079	33179	756	2662	14509	0054	00008	1429
0050	-0108	33500	756	2696	14430	0079	00018	1100
0075	-0135	33639	678	2708	14424	0105	00034	0984
0100	-0132	33742	686	2717	14431	0129	00056	0905
0125	-0140	33812	683	2722	14432	0151	00081	0847
0150	-0144	33866	669	2727	14435	0172	00110	0803
0175	-0132	3391 B	643 C	2730	14446	0192	00143	0770
0200	-0106	33966	616	2734	14463	0211	00180	0737
0225	-0059 B	3406 B	607 C	2739	14490	0229	00219	0688
0250	-0014	34144	599	2744	14516	0246	00260	0642
0300	0015	34250	555	2751	14539	0276	00347	0577
0400	0045	34392	546	2761	14571	0330	00538	0488
0500	0039	34445	546	2766	14586	0377	00755	0444
0600	0020	34442	546	2767	14594	0422	01005	0434
0700	0004	34451	546	2768	14603	0465	01292	0416

C-REF-NO 341	YR 1961	DEPTH 713	WAVES 1 XX	AIR T -01.3	VIS 9
CONS. NO 067	MONTH 9	MXSAMPD 06	WAVES 2 2542	WET B -02.1	STN
LAT 74-185N	DAY 15	NO.DPTH 15	WND-DIR 360	WW-CODE 03	
LON 79-040W	HR 17.2	W-COLOR	WND-SPD 02	CLD-TPE 5	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 1004.	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
172	0000	014	32939		2639	14528
172	0010	0132	32930		2639	14526
172	0020	-0048	33282		2676	14450
172	0030	-0096	33396		2687	14431
172	0050	-0142	33586		2704	14416
172	0075	-0161	33719		2715	14413
172	0100	-0152	33793		2721	14422
172	0150	-0146	33882		2728	14434
172	0200	-0092	33996		2736	14470
172	0250	-0022	34128		2743	14512
172	0300	0020	34261		2752	14541
172	0400	0076	34409		2761	14586
172	0500	0070	34458		2765	14600
172	0600	0026	34454		2767	14597
172	0650	-0009	34444		2768	14589

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0140	32939		2639	14528	0000	00000	1648
0010	0132	32930		2639	14526	0017	00001	1650
0020	-0048	33282		2676	14450	0031	00003	1290
0030	-0096	33396		2687	14431	0044	00006	1185
0050	-0142	33586		2704	14416	0066	00015	1024
0075	-0161	33719		2715	14413	0091	00031	0915
0100	-0152	33793		2721	14422	0113	00051	0859
0125	-0151	3384 B		2725	14427	0134	00075	0822
0150	-0146	33882		2728	14434	0154	00104	0790
0175	-0123	33936		2732	14450	0174	00136	0755
0200	-0092	33996		2736	14470	0193	00172	0720
0225	-0056	34061		2740	14491	0210	00211	0685
0250	-0022	34128		2743	14512	0227	00252	0650
0300	0020	34261		2752	14541	0258	00338	0572
0400	0076	34409		2761	14585	0312	00530	0496
0500	0070	34458		2765	14600	0360	00752	0456
0600	0026	34454		2767	14597	0405	01004	0429

C-REF-NO 341	YR 1961	DEPTH 603	WAVES 1 32X1	AIR T -01.7	VIS 8
CONS. NO 068	MONTH 9	MXSAMPD 06	WAVES 2 2782	WET B -02.3	STN
LAT 74-300N	DAY 15	NO.DPTH 14	WND-DIR 360	WW-CODE 03	
LON 78-37CW	HR 20.1	W-COLOR	WND-SPD 03	CLD-TPE 7	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 1004.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
201	0000	014	32774	791	2625	14525
201	0010	0149	32486	774	2602	14527
201	0020	0084	33241	818	2666	14510
201	0030	-0124	33500	739	2697	14419
201	0050	-0136	33665	721	2710	14419
201	0075	-0164	33778	704	2720	14412
201	0100	-0164	33823	686	2724	14417
201	0150	-0149	33897	651	2730	14433
201	0200	-0073	34032	617	2738	14479
201	0250	0028	34225	564	2749	14536
201	0300	0058	34317	564	2754	14560
201	0400	0099	34468	519	2764	14597
201	0500	0074	34484	494	2767	14602
201	0570	-0011	34440	507	2768	14575

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0140	32774	791	2625	14525	0000	00000	1774
0010	0149	32486	774	2602	14527	0019	00001	1998
0020	0084	33241	818	2666	14510	0036	00003	1385
0030	-0124	33500	739	2697	14419	0049	00007	1096
0050	-0136	33665	721	2710	14419	0069	00015	0965
0075	-0164	33778	704	2720	14412	0092	00030	0869
0100	-0164	33823	686	2724	14417	0114	00049	0833
0125	-0162	33858	668	2727	14423	0135	00073	0806
0150	-0149	33897	651	2730	14433	0154	00101	0778
0175	-0116	33957	635	2733	14453	0174	00133	0741
0200	-0073	34032	617	2738	14479	0192	00168	0700
0225	-0020 B	3413 B	588 C	2744	14509	0209	00205	0649
0250	0028	34225	564	2749	14536	0225	00243	0604
0300	0058	34317	564	2754	14559	0254	00326	0553
0400	0099	34468	519	2764	14597	0305	00509	0468
0500	0074	34484	494	2767	14602	0351	00720	0439

C-REF-NO 341	YR 1961	DEPTH 300	WAVES 1 33X2	AIR T -02.3	VIS 8
CONS. NO 069	MONTH 9	MXSAMPD 02	WAVES 2 3082	WET B -02.6	STM
LAT 74-400N	DAY 15	NO.DPTH 10	WND-DIR 340	WW-CODE 03	
LON 77-280W	HR 23.7	W-COLOR	WND-SPD 07	CLD-TPE 4	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 1004.	CLD-AMT 6	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
237	0000	017	33099		2649	14543
237	0010	0168	33092		2649	14544
237	0020	0166	33128		2652	14545
237	0030	0115	33442		2681	14528
237	0050	-0104	33601		2704	14434
237	0075	-0129	33699		2713	14427
237	0100	-0154	33776		2720	14421
237	0150	-0132	33920		2731	14442
237	0200	-0064	34077		2741	14484
237	0249	-0029	34198		2749	14510

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0170	33099		2649	14543	0000	00000	1546
0010	0168	33092		2649	14544	0016	00001	1550
0020	0166	33128		2652	14545	0031	00003	1522
0030	0115	33442		2681	14528	0045	00007	1250
0050	-0104	33601		2704	14434	0068	00016	1024
0075	-0129	33699		2713	14427	0093	00032	0940
0100	-0154	33776		2720	14421	0116	00052	0872
0125	-0152	33848		2726	14427	0137	00077	0816
0150	-0132	33920		2731	14441	0157	00105	0766
0175	-0099	34000		2736	14462	0175	00136	0715
0200	-0064	34077		2741	14484	0193	00169	0670
0225	-0053 B	34136		2746	14494	0209	00205	0629
*0250	-0028	34201		2750	14510	0225	00243	0592

C-REF-NO 341	YR 1961	DEPTH 384	WAVES 1 33X2	AIR T 00.6	VIS 8
CONS. NO 070	MONTH 9	MXSAMPD 03	WAVES 2 3082	WET B -00.6	STN
LAT 74-500N	DAY 16	NO.DPTH 12	WND-DIR 320	WW-CODE 03	
LON 76-200W	HR 02.5	W-COLOR	WND-SPD 03	CLD-TPE 4	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 1003.	CLD-AMT 6	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
025	0000	0170	33096		2649	14543
025	0010	0172	33090		2649	14546
025	0020	0171	33087		2648	14547
025	0030	-0117	33621		2706	14424
025	0049	-0150	33732		2716	14414
025	0074	-0145	33799		2722	14421
025	0097	-0162	33839		2725	14417
025	0150	-0133	33923		2731	14441
025	0200	-0069	34072		2741	14481
025	0250	-0030	34204		2750	14509
025	0300	-0031	34298		2758	14519
025	0350	-0029	34337		2761	14528

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0170	33096		2649	14543	0000	00000	1548
0010	0172	33090		2649	14546	0016	00001	1554
0020	0171	33087		2648	14547	0031	00003	1556
0030	-0117	33621		2706	14424	0044	00006	1006
0050	-0150	33736		2717	14414	0063	00014	0907
0075	-0146	33801		2722	14421	0086	00028	0857
0100	-0162	33843		2726	14418	0107	00047	0818
0125	-0155	3388 B		2728	14426	0127	00071	0791
0150	-0133	33923		2731	14441	0147	00098	0763
0175	-0102	33994		2736	14461	0165	00129	0718
0200	-0069	34072		2741	14481	0183	00163	0672
0225	-0045	34141		2746	14497	0199	00199	0629
0250	-0030	34204		2750	14509	0215	00236	0588
0300	-0031	34298		2758	14519	0242	00315	0515

C-REF-NO 341	YR 1961	DEPTH 492	WAVES 1 3CX1	AIR T -01.8	VIS 8
CONS. NO 071	MONTH 9	MXSAMPD 04	WAVES 2 1782	WET B -01.9	STN
LAT 75-305N	DAY 16	NO.DPTH 13	WND-DIR 320	WW-CODE 03	
LON 78-250W	HR 08.5	W-COLOR	WND-SPD 05	CLD-TPE 7	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 1001.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
085	0000	004	32629	791	2620	14478
085	0010	0083	32624	791	2617	14499
085	0020	0078	32639		2618	14499
085	0030	0110	33025	791	2648	14520
085	0050	-0088	33492	781	2695	14440
085	0075	-0142	33661	721	2710	14421
085	0100	-0117	33785	669	2720	14438
085	0150	-0115	33891	639	2728	14449
085	0200	-0085	34010	616	2737	14473
085	0241	-0047	34000	590	2734	14497
085	0289	-0035	34245	572	2753	14514
085	0386	-0017	34381	572	2764	14541
085	0435	-0014	34357	572	2762	14550

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0040	32629	791	2620	14478	0000	00000	1829
0010	0083	32624	791	2617	14499	0019	00001	1854
0020	0078	32639	792	2618	14499	0037	00004	1840
0030	0110	33025	791	2648	14520	0054	00008	1564
0050	-0088	33492	781	2695	14440	0081	00019	1113
0075	-0142	33661	721	2710	14421	0107	00035	0965
0100	-0117	33785	669	2720	14438	0131	00056	0876
0125	-0114 B	3385 C	647 D	2725	14445	0152	00081	0827
0150	-0115	33891	639	2728	14449	0173	00110	0794
0175	-0103	3396 B	628	2733	14460	0192	00142	0745
0200	-0085	34010	616	2737	14473	0210	00177	0712
0225	-0061	3400 D	600	2735	14488	0229	00217	0731
0250	-0043	3404 C	586	2737	14501	0247	00261	0706
0300	-0032	3428 B	571	2756	14518	0278	00348	0529
0400	-0016	3440 D	568 C	2765	14543	0327	00523	0445

C-REF-NO 341	YR 1961	DEPTH 338	WAVES 1 22X1	AIR T -01.2	VIS 8
CONS. NO 072	MONTH 9	MXSAMPD 03	WAVES 2 2082	WET B -02.1	STN
LAT 75-420N	DAY 16	NO.DPTH 11	WND-DIR 230	WW-CODE 02	
LON 76-210W	HR 12.7	W-COLOR	WND-SPD 04	CLO-TPE 7	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 1001.	CLO-AMT 6	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
127	0000	017	32007	756	2562	14528
127	0010	0183	33042	765	2644	14550
127	0020	0185	33048	765	2644	14553
127	0030	-0077	33470	835	2693	14441
127	0050	-0143	33721	721	2715	14417
127	0075	-0161	33794	686	2722	14414
127	0100	-0159	33839	669	2725	14419
127	0150	-0113	33958	625	2733	14451
127	0200	-0058	34104	625	2743	14487
127	0250	-0039	34241	616	2753	14506
127	0300	-0036	34334	599	2761	14517

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0170	32007	756	2562	14528	0000	00000	2376
0010	0183	33042	765	2644	14550	0020	00001	1598
0020	0185	33048	765	2644	14553	0036	00003	1595
0030	-0077	33470	835	2693	14441	0050	00007	1135
0050	-0143	33721	721	2715	14417	0071	00015	0920
0075	-0161	33794	686	2722	14414	0093	00029	0858
0100	-0159	33839	669	2725	14419	0114	00048	0822
0125	-0140	33894	645 C	2729	14433	0134	00072	0784
0150	-0113	33958	625	2733	14451	0154	00099	0743
0175	-0084	34030	623 B	2738	14470	0172	00129	0698
0200	-0058	34104	625	2743	14487	0189	00162	0652
0225	-0045	34176	622	2748	14498	0205	00196	0603
0250	-0039	34241	616	2753	14506	0219	00232	0556
0300	-0036	34334	599	2761	14517	0246	00306	0485

C-REF-NO 341	YR 1961	DEPTH 411	WAVES 1 XX	AIR T -00.3	VIS 8
CONS. NO 073	MONTH 9	MXSAMPD 04	WAVES 2 2882	WET B -01.1	STN
LAT 76-000N	DAY 16	NO.DPTH 12	WND-DIR 020	WW-CODE 02	
LON 74-000W	HR 17.9	W-COLOR	WND-SPD 03	CLD-TPE 9	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 998.	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
179	0000	008	30910	730	2480	14473
179	0010	0069	30962	774	2484	14470
179	0020	0111	31353	792	2513	14496
179	0030	-0001	33349	879	2680	14475
179	0050	-0133	33682	695	2712	14421
179	0075	-0133	33780	678	2720	14427
179	0100	-0147	33831	669	2724	14425
179	0150	-0125	33914	625	2730	14445
179	0200	-0079	34031	608	2738	14476
179	0250	-0059	34178	616	2749	14496
179	0300	-0041	34275	616	2756	14514
179	0375	-0036	34363	616	2763	14530

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0080	30910	730	2480	14473	0000	00000	3160
0010	0069	30962	774	2484	14470	0032	00002	3115
0020	0111	31353	792	2513	14496	0061	00006	2838
0030	-0001	33349	879	2680	14474	0082	00011	1259
0050	-0133	33682	695	2712	14421	0104	00020	0953
0075	-0133	33780	678	2720	14427	0127	00035	0876
0100	-0147	33831	669	2724	14425	0149	00054	0832
0125	-0142	33872	647 C	2727	14432	0170	00077	0801
0150	-0125	33914	625	2730	14445	0189	00105	0772
0175	-0102	33969	613	2734	14460	0208	00137	0738
0200	-0079	34031	608	2738	14476	0227	00172	0699
0225	-0067	34106	611 B	2744	14487	0243	00209	0646
0250	-0059	34178	616	2749	14496	0259	00247	0594
0300	-0041	34275	616	2756	14514	0287	00327	0528

C-REF-NO 341 YR 1961 DEPTH 677 WAVES 1 33X3 AIR T -00.8 VIS 8
 CONS. NO 074 MONTH 9 MXSAMPD 06 WAVES 2 3146 WET B -01.4 STN
 LAT 76-180N DAY 16 NO.DPTH 15 WND-DIR 340 WW-CODE 01
 LON 71-COCW HR 23.6 W-COLOR WND-SPD 11 CLD-TPE 8
 MARSD SQ 260 C/I 1810 W-TRNSP BARO 990. CLD-AMT 3 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
236	0000	005	32338	800	2596	14479
236	0010	0047	32307	826	2593	14479
236	0020	-0090	33489	879	2695	14434
236	0030	-0125	33599	791	2705	14420
236	0049	-0157	33709	704	2715	14410
236	0074	-0158	33769	678	2719	14415
236	0099	-0154	33799	660	2722	14421
236	0148	-0130	33892	547	2729	14442
236	0197	-0037	34019	554	2735	14495
236	0247	-0033	34162	529	2747	14507
236	0297	-0022	34200	503	2749	14521
236	0397	-0041	34326	546	2760	14531
236	0497	-0036	34405	564	2766	14551
236	0597	-0032	34470	564	2771	14570
236	0650	-0032	34452	546	2770	14579

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0050	32338	800	2596	14479	0000	00000	2056
0010	0047	32307	826	2593	14479	0021	00001	2077
0020	-0090	33489	879	2695	14434	0037	00003	1116
0030	-0125	33599	791	2705	14420	0048	00006	1020
0050	-0158	33713	702	2715	14410	0067	00014	0923
0075	-0158	33770	677	2720	14415	0090	00028	0877
0100	-0154	33801	658	2722	14421	0112	00048	0853
0125	-0147	33843	599 I	2725	14429	0133	00072	0821
0150	-0126	33897	546	2729	14444	0153	00101	0785
0175	-0078 B	33959	545 F	2732	14472	0172	00133	0755
0200	-0036	34029	553	2736	14496	0191	00169	0720
0225	-0030 B	3411 B	542 B	2742	14504	0209	00207	0665
0250	-0032	34166	527	2747	14508	0225	00246	0616
0300	-0022	34204	504	2750	14521	0255	00332	0592
0400	-0041	34329	547	2761	14531	0309	00525	0485
0500	-0036	34408	564	2767	14551	0355	00736	0426
0600	-0032	3446 C	561 B	2771	14570	0397	00968	0388

C-REF-NO 341	YR 1961	DEPTH 1033	WAVES 1 24X2	AIR T -01.5	VIS B
CONS. NO 075	MONTH 9	MXSAMPD 09	WAVES 2 XX	WET B -01.8	STN
LAT 76-58CN	DAY 17	NO.DPTH 17	WND-DIR 340	WW-CODE 01	
LON 71-52CW	HR 05.5	W-COLOR	WND-SPD 08	CLD-TPE 5	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 984.	CLD-AMT 5	HW

O B S E R V E D

	GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
	055	0000	008	31780	809	2549	14485
	055	0010	0076	31760	800	2548	14484
	055	0020	0056	32971	826	2646	14494
	055	0030	-0077	33401	739	2687	14440
	055	0049	-0130	33649	704	2709	14422
	055	0074	-0144	33742	686	2717	14421
	055	0099	-0157	33770	669	2719	14419
	055	0148	-0141	33845	634	2725	14436
	055	0197	-0093	33937	599	2731	14468
	055	0247	-0071	34033	599	2738	14488
1	055	0295	-0052	34135	616	2745	14506
	055	0399	-0009	34307	581	2757	14545
	055	0499	-0010	34348	581	2761	14562
	055	0599	-0011	34367	581	2762	14579
	055	0699	-0010	34381	581	2763	14596
	055	0799	-0011	34382	581	2763	14612
	055	0949	-0012	34385	581	2764	14637

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0080	31780	809	2549	14485	0000	00000	2496
0010	0076	31760	800	2548	14484	0025	00001	2509
0020	0056	32971	826	2646	14494	0046	00004	1575
0030	-0077	33401	739	2687	14440	0060	00008	1188
0050	-0131	33656	703	2710	14422	0081	00016	0974
0075	-0145	33744	685	2717	14421	0105	00031	0901
0100	-0157	33771	668	2720	14419	0127	00052	0875
0125	-0154	33807	651	2722	14425	0149	00077	0847
0150	-0139	33849	632	2725	14437	0170	00106	0818
0175	-0115	33895	613 B	2728	14453	0190	00140	0790
0200	-0091	33943	598	2731	14469	0210	00178	0761
0225	-0079	33990	596	2735	14480	0229	00218	0729
0250	-0070	34039	600	2738	14489	0247	00262	0694
0300	-0049	34146	615	2746	14508	0280	00356	0622
0400	-0009	34308	581	2757	14545	0337	00560	0519
0500	-0010	34348	581	2761	14562	0388	00794	0486
0600	-0011	34367	581	2762	14579	0437	01067	0470
0700	-0010	34381	581	2763	14596	0483	01381	0459
0800	-0011	34385	581	2764	14612	0530	01737	0454

C-REF-NO 341	YR 1961	DEPTH 521	WAVES 1 34X6	AIR T -05.2	VIS 9
CONS. NO 076	MONTH 9	MXSAMPD 04	WAVES 2 3449	WET B -05.4	STN
LAT 76-54N	DAY 17	NO.DPTH 12	WND-DIR 340	WW-CODE 01	
LON 74-20W	HR 11.2	W-COLOR	WND-SPD 16	CLD-TPE 6	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 986.	CLD-AMT 1	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
112	0000	-014	32424		2610	14392
112	0010	-0139	32412		2609	14394
112	0020	-0141	32396		2608	14394
112	0029	-0130	32427		2610	14401
112	0049	-0079	33052		2659	14437
112	0073	-0114	33391		2688	14430
112	0098	-0112	33620		2706	14438
112	0146	-0088	33999		2736	14463
112	0196	-0055	34152		2747	14488
112	0246	-0040	34233		2753	14505
112	0296	-0038	34312		2759	14515
112	0396	-0036	34416		2767	14534

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SYA
0000	-0140	32424		2610	14392	0000	00000	1920
0010	-0139	32412		2609	14394	0019	00001	1929
0020	-0141	32396		2608	14394	0039	00004	1940
0030	-0127	3245 C		2612	14403	0058	00009	1899
0050	-0080	33072		2661	14437	0092	00022	1438
0075	-0115	33412		2689	14430	0125	00043	1164
0100	-0111	33639		2708	14439	0152	00067	0990
0125	-0101	3385 B		2724	14451	0175	00093	0830
0150	-0085	34017		2737	14465	0194	00120	0709
0175	-0068	3411 B		2744	14478	0211	00149	0646
0200	-0053	34160		2747	14490	0227	00179	0612
0225	-0044	34203		2751	14499	0242	00212	0582
0250	-0040	34240		2753	14506	0256	00247	0556
0300	-0035	34313		2759	14517	0283	00322	0502
0400	-0036	34419		2768	14534	0330	00487	0419

C-REF-NO 341	YR 1961	DEPTH 460	WAVES 1 XX	AIR T -05.1	VIS 9
CONS. NO 077	MONTH 9	MXSAMPD 03	WAVES 2 XX	WET B -05.5	STN
LAT 76-510N	DAY 17	NO.DPTH 12	WND-DIR 310	WW-CODE 01	
LON 75-540W	HR 15.5	W-COLOR	WND-SPD 05	CLD-TPE 5	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 988.	CLD-AMT 5	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
155	0000	-016	31991		2575	14376
155	0010	-0164	32004		2577	14376
155	0020	-0162	32038		2579	14379
155	0030	-0159	32066		2581	14383
155	0050	-0144	32215		2593	14395
155	0075	-0101	32598		2623	14425
155	0100	-0094	32932		2650	14437
155	0149	-0117	33332		2683	14440
155	0173	-0120	33737		2716	14448
155	0216	-0102	33946		2732	14467
155	0259	-0072	34115		2745	14490
155	0346	-0047	34335		2761	14519

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0160	31991		2575	14376	0000	00000	2249
0010	-0164	32004		2577	14376	0023	00001	2237
0020	-0162	32038		2579	14379	0045	00005	2211
0030	-0159	32066		2581	14383	0067	00010	2189
0050	-0144	32215		2593	14395	0110	00028	2076
0075	-0101	32598		2623	14425	0159	00059	1792
0100	-0094	32932		2650	14437	0201	00096	1537
0125	-0104	3312 I		2665	14439	0237	00138	1387
0150	-0117	33350		2684	14440	0270	00184	1207
0175	-0120	3376 B		2717	14449	0297	00228	0895
0200	-0111	3391 H		2729	14459	0318	00268	0779
0225	-0096	33985		2735	14472	0337	00309	0726
0250	-0078	34083		2742	14485	0354	00352	0658
0300	-0062	34239		2754	14503	0384	00437	0545

C-REF-NO 341	YR 1961	DEPTH 612	WAVES 1 14X2	AIR T -01.2	VIS 7
CONS. NO 078	MONTH 9	MXSAMPD 05	WAVES 2 XX	WET B -02.8	STN
LAT 75-000N	DAY 18	NO.DPTH 14	WND-DIR 140	WW-CODE 03	
LON 75-000W	HR 03.8	W-COLOR	WND-SPD 03	CLD-TPE 7	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 997.	CLD-AMT 6	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
038	0000	017	32904	783	2634	14541
038	0010	0161	32908	774	2635	14538
038	0020	-0054	33476	914	2692	14450
038	0030	-0142	33643	792	2709	14413
038	0050	-0163	33756	704	2719	14408
038	0075	-0163	33805	704	2722	14413
038	0100	-0160	33856	687	2727	14419
038	0150	-0150	33907	669	2730	14433
038	0200	-0026	34063	581	2738	14501
038	0250	-0012	34149	564	2745	14517
038	0300	0060	34297	546	2753	14560
038	0400	0009	34372	519	2762	14555
038	0500	0011	34460	582	2769	14573
038	0550	-0031	34444	651	2769	14562

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0170	32904	783	2634	14541	0000	00000	1694
0010	0161	32908	774	2635	14538	0017	00001	1685
0020	-0054	33476	914	2692	14450	0031	00003	1139
0030	-0142	33643	792	2709	14413	0042	00006	0982
0050	-0163	33756	704	2719	14408	0061	00013	0888
0075	-0163	33805	704	2722	14413	0083	00027	0849
0100	-0160	33856	687	2727	14419	0104	00046	0809
0125	-0162 B	3388 C	681 D	2728	14422	0124	00069	0789
0150	-0150	33907	669	2730	14433	0143	00097	0770
0175	-0088 C	3398 C	625 F	2735	14467	0162	00128	0732
0200	-0026	34063	581	2738	14501	0180	00163	0699
0225	-0016 B	3411 B	568 C	2741	14510	0198	00201	0670
0250	-0012	34149	564	2745	14517	0214	00241	0639
0300	0060	34297	546	2753	14560	0245	00327	0569
0400	0009	34372	519	2762	14555	0298	00515	0481
0500	0011	34460	582	2769	14573	0343	00723	0415

C-REF-NO 341 YR 1961 DEPTH 1030 WAVES 1 28X2 AIR T -03.5 VIS 7
 CONS. NO 079 MONTH 9 MXSAMPD 08 WAVES 2 2882 WET B -04.4 STN
 LAT 73-330N DAY 18 NO.DPTH 16 WND-DIR 270 WW-CODE 72
 LON 77-070W HR 15.3 W-COLOR WND-SPD 05 CLD-TPE 0
 MARSD SQ 260 C/I 1810 W-TRNSP BARO 986. CLD-AMT 8 HW

O B S E R V E D

	GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
	153	0000	-008	31480		2532	14407
	153	0010	-0088	31456		2530	14404
	153	0020	-0083	31473		2532	14409
	153	0030	-0052	31579		2539	14426
	153	0050	-0013	31762		2552	14450
	153	0075	-0005	32281		2594	14465
	153	0100	-0054	32535		2616	14450
	153	0150	-0031	33184		2668	14478
	153	0200	-0128	33650		2709	14448
	153	0250	-0140	33855		2726	14453
	153	0300	-0122	33984		2736	14472
	153	0400	-0010	34404		2765	14546
3	153	0500	0031	34625		2781	14585
3	153	0600	0038	34484		2769	14603
3	153	0700	0042	34725		2788	14625
3	153	0800	0018	34625		2781	14629

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0080	31480		2532	14407	0000	00000	2661
0010	-0088	31456		2530	14404	0027	00001	2677
0020	-0083	31473		2532	14409	0054	00006	2664
0030	-0052	31579		2539	14426	0080	00012	2592
0050	-0013	31762		2552	14450	0131	00033	2465
0075	-0005	32281		2594	14465	0188	00069	2071
0100	-0054	32535		2616	14450	0238	00113	1855
0125	-0045 D	3286 E		2642	14463	0281	00163	1610
0150	-0031	33184		2668	14478	0319	00215	1367
0175	-0077 C	33445		2691	14464	0350	00268	1148
0200	-0128	33650		2709	14448	0377	00319	0971
0225	-0141	3377 C		2719	14447	0400	00370	0870
0250	-0140	33855		2726	14453	0421	00421	0807
0300	-0122	33984		2736	14472	0460	00529	0713
0400	-0010	34404		2765	14546	0518	00732	0445
0500	0031	34625		2781	14585	0556	00903	0303
0600	0038	34484		2769	14602	0592	01111	0414
0700	0042	34725		2788	14624	0625	01327	0237
0800	0018	34625		2781	14629	0652	01535	0294

C-REF-NO 341	YR 1961	DEPTH 914	WAVES 1 XX	AIR T -02.8	VIS 9
CONS. NO 080	MONTH 9	MXSAMPD 08	WAVES 2 1442	WET B -03.2	STN
LAT 73-440N	DAY 18	NO.DPTH 17	WND-DIR 240	WW-CODE 03	
LON 76-230W	HR 19.2	W-COLOR	WND-SPD 04	CLD-TPE 7	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 985.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
192	0000	-006	31630	818	2544	14418
192	0010	-0061	31688	826	2548	14420
192	0020	-0051	31839	809	2560	14429
192	0030	-0014	32143	791	2583	14452
192	0050	-0026	32615	756	2622	14456
192	0075	-0094	32866	704	2644	14432
192	0100	-0112	33332	704	2683	14434
192	0150	-0132	33653	689	2709	14438
192	0200	-0142	33803	678	2722	14443
192	0250	-0144	33889	686	2729	14452
192	0278	-0114	33937	651	2732	14471
192	0371	-0010	34169	581	2746	14538
192	0464	0032	34317	563	2756	14575
192	0548	0062	34440	554	2764	14604
192	0652	0036	34445	563	2766	14610
192	0749	0025	34444	581	2767	14621
192	0818	0013	34444		2767	14627

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT. EN	SVA
0000	-0060	31630	818	2544	14418	0000	00000	2552
0010	-0061	31688	826	2548	14420	0025	00001	2507
0020	-0051	31839	809	2560	14429	0050	00005	2394
0030	-0014	32143	791	2583	14452	0073	00011	2174
0050	-0026	32615	756	2622	14456	0113	00027	1808
0075	-0094	32866	704	2644	14432	0156	00054	1589
0100	-0112	33332	704	2683	14434	0191	00085	1225
0125	-0124	3355 I	698	2701	14436	0220	00118	1049
0150	-0132	33653	689	2709	14438	0245	00154	0970
0175	-0138	3374 B	682	2717	14440	0269	00193	0898
0200	-0142	33803	678	2722	14443	0291	00235	0849
0225	-0148	33850	686 E	2726	14445	0312	00281	0809
0250	-0144	33889	686	2729	14452	0332	00330	0780
0300	-0087	3399 B	629	2735	14488	0370	00436	0722
0400	0007	34220	572 B	2749	14551	0436	00672	0594
0500	0048	3438 B	558	2760	14589	0492	00926	0502
0600	0052	3445 B	556	2766	14609	0540	01196	0448
0700	0030	34445	569	2766	14615	0585	01495	0439
0800	0015	34444		2767	14625	0628	01834	0428

C-REF-NO 341	YR 1961	DEPTH 805	WAVES 1 XX	AIR T -01.6	VIS 5
CONS. NO 081	MONTH 9	MXSAMPD 07	WAVES 2 1542	WET B -02.4	STN
LAT 74-020N	DAY 18	NO.DPTH 16	WND-DIR 180	WW-CODE 86	
LON 75-000W	HR 23.1	W-COLOR	WND-SPD 14	CLD-TPE 6	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 984.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
231	0000	003	31915		2563	14464
231	0010	0039	31922		2563	14470
231	0020	0019	32248		2590	14467
231	0030	-0084	32693		2630	14427
231	0050	-0100	32982		2654	14427
231	0075	-0117	33131		2667	14425
231	0100	-0113	33450		2692	14436
231	0150	-0149	33737		2717	14431
231	0199	-0145	33858		2726	14443
231	0244	-0107	33966		2734	14469
231	0294	-0019	34140		2744	14521
231	0394	0046	34340		2757	14570
231	0494	0066	34435		2763	14597
231	0594	0047	34448		2766	14605
231	0694	0020	34462		2768	14610
231	0744	0015	34465		2769	14616

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0030	31915		2563	14464	0000	00000	2369
0010	0039	31922		2563	14470	0024	00001	2368
0020	0019	32248		2590	14467	0046	00005	2109
0030	-0084	32693		2630	14427	0066	00009	1728
0050	-0100	32982		2654	14427	0098	00023	1500
0075	-0117	33131		2667	14425	0134	00046	1379
0100	-0113	33450		2692	14435	0166	00074	1134
0125	-0130 B	3363 D		2708	14434	0193	00104	0987
0150	-0149	33737		2717	14431	0217	00138	0900
0175	-0152	3381 B		2722	14435	0239	00174	0843
0200	-0145	33860		2726	14443	0259	00214	0804
0225	-0127	33918		2731	14456	0279	00257	0765
0250	-0097	33987		2735	14475	0298	00303	0723
0300	-0012	34156		2745	14525	0332	00399	0633
0400	0048	34348		2757	14572	0390	00606	0523
0500	0066	34437		2764	14598	0441	00837	0469
0600	0045	34449		2766	14605	0487	01098	0446
0700	0022	34461		2768	14612	0531	01390	0420

C-REF-NO 341	YR 1961	DEPTH 736	WAVES 1 23X4	AIR T -01.4	VIS 7
CONS. NO 082	MONTH 9	MXSAMPD 07	WAVES 2 1826	WET B -02.0	STN
LAT 74-170N	DAY 19	NO.DPTH 15	WND-DIR 230	WW-CODE 77	
LON 73-440W	HR 03.1	W-COLOR	WND-SPD 15	CLD-TPE 6	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 985.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
031	0000	007	32222		2585	14486
031	0010	0071	32208		2584	14488
031	0020	0077	32220		2585	14493
031	0030	0000	33057		2656	14471
031	0049	-0108	33508		2697	14430
031	0074	-0136	33677		2711	14424
031	0099	-0144	33740		2717	14425
031	0143	-0155	33833		2725	14428
031	0192	-0139	33918		2731	14445
031	0240	-0040	34070		2740	14501
031	0289	0037	34230		2749	14547
031	0387	0106	34405		2758	14597
031	0486	0108	34476		2764	14615
031	0585	0074	34484		2767	14616
031	0685	-0010	34444		2768	14594

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0070	32222		2585	14486	0000	00000	2154
0010	0071	32208		2584	14488	0022	00001	2165
0020	0077	32220		2585	14493	0043	00004	2159
0030	0000	33057		2656	14471	0062	00009	1482
0050	-0111	33520		2698	14429	0088	00019	1084
0075	-0137	33681		2712	14424	0113	00035	0952
0100	-0144	33742		2717	14425	0137	00056	0900
0125	-0152	33797		2722	14426	0159	00082	0855
0150	-0156	33844		2725	14429	0180	00111	0816
0175	-0151	33886		2729	14436	0200	00145	0784
0200	-0125	33941		2732	14454	0219	00182	0750
0225	-0074 B	34019		2737	14482	0238	00222	0709
0250	-0022	34104		2742	14512	0255	00265	0668
0300	0049	34257		2750	14555	0287	00354	0593
0400	0109	34419		2759	14600	0343	00553	0512
0500	0106	34480		2765	14616	0392	00780	0465
0600	0062	34484		2768	14613	0437	01036	0432

C-REF-NO 341	YR 1961	DEPTH 982	WAVES 1 04X3	AIR T -01.1	VIS 8
CONS. NO 083	MONTH 9	MXSAMPD 09	WAVES 2 XX	WET B -01.6	STN
LAT 74-300N	DAY 19	NO.DPTH 17	WND-DIR	WW-CODE	
LON 72-300W	HR 07.2	W-COLOR	WND-SPD	CLD-TPE 6	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 986.	CLD-AMT 5	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
072	0000	016	32490	778	2601	14531
072	0010	0155	32420	756	2596	14529
072	0020	0179	32577	765	2607	14543
072	0030	-0085	33275	756	2677	14435
072	0049	-0137	33468	704	2694	14416
072	0074	-0150	33658	721	2710	14417
072	0099	-0163	33751	695	2718	14416
072	0148	-0155	33858	678	2727	14429
072	0197	-0124	33945	634	2733	14453
072	0246	-0005	34126	581	2742	14519
072	0292	0028	34230	528	2749	14543
072	0390	0109	34414	528	2759	14599
072	0490	0108	34474	528	2764	14616
072	0589	0093	34484	519	2766	14626
072	0688	0081	34504	511	2768	14637
072	0788	0061	34494	397	2768	14645
072	0887	-0004	34454	553	2769	14631

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0160	32490	778	2601	14531	0000	00000	2002
0010	0155	32420	756	2596	14529	0020	00001	2052
0020	0179	32577	765	2607	14543	0041	00004	1949
0030	-0085	33275	756	2677	14435	0057	00008	1281
0050	-0138	33477	704	2695	14416	0081	00018	1109
0075	-0151	33663	720	2711	14417	0107	00034	0961
0100	-0163	33754	695	2718	14416	0130	00055	0886
0125	-0163	33815	685 C	2723	14421	0152	00080	0838
0150	-0155	33861	677	2727	14430	0173	00109	0804
0175	-0145	3390 B	656	2730	14439	0193	00142	0774
0200	-0117	33956	631	2733	14457	0212	00179	0741
0225	-0056 C	3405 B	604	2738	14491	0230	00219	0696
0250	-0001	34137	576	2743	14522	0247	00260	0655
0300	0036	34248	525 B	2750	14548	0278	00349	0591
0400	0111	34424	528	2760	14601	0334	00547	0510
0500	0107	34476	527	2764	14617	0383	00774	0469
0600	0092	34487	521 B	2766	14627	0430	01037	0452
0700	0080	34504	493 G	2768	14638	0474	01335	0431
0800	0049	34491	467 I	2769	14641	0517	01666	0418

REF-NO 341	YR 1961	DEPTH 1019	WAVES 1 23X2	AIR T -00.7	VIS 7
CONS. NO 084	MONTH 9	MXSAMPD 09	WAVES 2 2226	WET B -01.5	STN
LAT 74-52CN	DAY 19	NO.DPTH 18	WND-DIR 240	WW-CODE C2	
LON 71-08CW	HR 12.2	W-COLOR	WND-SPD 03	CLO-TPE 6	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 1088.	CLO-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
122	0000	0169	32596		2609	14536
122	0010	0158	32573		2608	14532
122	0020	0156	32580		2609	14533
122	0030	0057	33166		2662	14498
122	0050	-0102	33474		2694	14433
122	0075	-0148	33654		2710	14418
122	0100	-0163	33771		2720	14416
122	0150	-0155	33875		2728	14430
122	0200	-0098				
122	0250	0007	34143		2743	14526
122	0300	0067	34278		2751	14563
122	0400	0103	34415		2759	14598
122	0500	0127	34493		2764	14626
122	0600	0107	34502		2766	14634
122	0700	0085	34495		2767	14640
122	0800	0065	34493		2768	14648
122	0900	0045	34509		2771	14656
122	0950	0029	34490		2770	14657

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0169	32596		2609	14536	0000	00000	1927
0010	0158	32573		2608	14532	0019	00001	1938
0020	0156	32580		2609	14533	0039	00004	1931
0030	0057	33166		2662	14498	0056	00008	1427
0050	-0102	33474		2694	14433	0082	00018	1122
0075	-0148	33654		2710	14418	0108	00035	0969
0100	-0163	33771		2720	14416	0131	00056	0873
0125	-0165	3383 C		2725	14420	0152	00080	0824
0150	-0155	33875		2728	14430	0173	00109	0793
0175	-0133	33938		2732	14446	0192	00142	0750
0200	-0098	34004		2737	14467	0211	00177	0712
0225	-0046 B	34072		2740	14496	0228	00215	0681
0250	0007	34143		2743	14526	0245	00256	0654
0300	0067	34278		2751	14563	0276	00345	0588
0400	0103	34415		2759	14598	0332	00542	0511
0500	0127	34493		2764	14626	0382	00771	0472
0600	0107	34502		2766	14634	0428	01035	0452
0700	0085	34495		2767	14641	0473	01337	0442

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
C800	0065	34493		2768	14648	0518	01676	0429

C-REF-NO 341	YR 1961	DEPTH 338	WAVES 1 08X1	AIR T -00.5	VIS 7
CONS. NO 085	MONTH 9	MXSAMPD 03	WAVES 2 0842	WET B -00.6	STN
LAT 75-440N	DAY 19	NO.DPTH 11	WND-DIR 080	WW-CODE 02	
LON 67-240W	HR 22.3	W-COLOR	WND-SPD 04	CLD-TPE 0	
MARSD SQ 259	C/I 1810	W-TRNSP	BARO 987.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SCUND
223	0000	-0028	29087		2338	14398
223	0010	0144	31246		2503	14508
223	0020	0148	32640		2614	14531
223	0030	-0024	33436		2688	14465
223	0050	-0111	33618		2706	14431
223	0075	-0130	33713		2714	14427
223	0100	-0131	33756		2718	14431
223	0150	-0126	33854		2725	14443
223	0200	-0080	33947		2731	14474
223	0250	0005	34088		2739	14524
223	0300	0074	34254		2748	14566

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0028	29087		2338	14398	0000	00000	4515
0010	0144	31246		2503	14508	0037	00002	2939
0020	0148	32640		2614	14531	0062	00005	1881
0030	-0024	33436		2688	14465	0077	00009	1182
0050	-0111	33618		2706	14431	0099	00018	1009
0075	-0130	33713		2714	14427	0124	00033	0929
0100	-0131	33756		2718	14431	0147	00054	0894
0125	-0132	33804		2722	14436	0169	00079	0856
0150	-0126	33854		2725	14443	0190	00109	0818
0175	-0108	33898		2728	14457	0210	00143	0790
0200	-0080	33947		2731	14474	0230	00180	0762
0225	-0039	34013		2735	14498	0248	00221	0730
0250	0005	34088		2739	14524	0266	00265	0695
0300	0074	34254		2748	14566	0299	00358	0611

C-REF-NO 341	YR 1961	DEPTH 681	WAVES 1 04X3	AIR T	VIS 6
CONS. NO 086	MONTH 9	MXSAMPD 06	WAVES 2 XX	WET B	STN
LAT 75-140N	DAY 20	NO.DPTH 14	WND-DIR 030	WW-CODE 72	
LON 69-300W	HR 03.3	W-COLOR	WND-SPD 05	CLD-TPE 6	
MARSD SQ 259	C/I 1810	W-TRNSP	BARO 985.	CLD-AMT 6	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
C33	0000	0079	30008		2407	14460
C33	0010	0070	31072		2493	14472
C33	0020	0173	32637		2612	14542
C33	0030	-0117	33379		2687	14421
C33	0050	-0128	33524		2699	14421
C33	0075	-0164	33673		2712	14411
C33	0100	-0166	33763		2719	14415
C33	0150	-0154	33856		2726	14430
C33	0200	-0129	33935		2732	14451
C33	0250	0029	34133		2741	14535
C33	0300	0066	34229		2747	14562
C33	0400	0130	34417		2758	14610
C33	0500	0124	34503		2765	14625
C33	0600	0091	34494		2767	14627

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0079	30008		2407	14460	0000	00000	3849
0010	0070	31072		2493	14472	0035	00002	3031
0020	0173	32637		2612	14542	0059	00005	1899
0030	-0117	33379		2687	14421	0075	00009	1191
0050	-0128	33524		2699	14421	0098	00018	1076
0075	-0164	33673		2712	14410	0123	00034	0950
0100	-0166	33763		2719	14415	0146	00055	0879
0125	-0162	3382 B		2723	14422	0168	00080	0836
0150	-0154	33856		2726	14430	0189	00109	0808
0175	-0151 B	3389 B		2729	14436	0209	00142	0782
0200	-0129	33935		2732	14451	0228	00180	0752
0225	-0051 D	3403 C		2737	14493	0246	00220	0709
0250	0029	34133		2741	14535	0264	00262	0674
0300	0066	34229		2747	14562	0297	00355	0624
0400	0130	34417		2758	14610	0355	00562	0529
0500	0124	34503		2765	14625	0405	00792	0462
0600	0091	34494		2767	14627	0451	01051	0446

C-REF-NO 341	YR 1961	DEPTH 942	WAVES 1 XX	AIR T 00.7	VIS 8
CONS. NO 087	MONTH 9	MXSAMPD 09	WAVES 2 1426	WET B 00.7	STN
LAT 75-000N	DAY 20	NO.DPTH 17	WNC-DIR 340	WW-CODE 01	
LON 69-000W	HR 06.6	W-COLOR	WND-SPD 05	CLD-TPE 5	
MARSD SQ 259	C/I 1810	W-TRNSP	BARO 985.	CLD-AMT 4	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
066	0000	0131	32628	790	2614	14519
066	0010	0125	32622	790	2614	14518
066	0020	0127	32636	774	2615	14521
066	0030	-0076	33352	826	2683	14440
066	0050	-0135	33543	739	2700	14418
066	0075	-0157	33729	721	2716	14415
066	0100	-0163	33794	704	2722	14417
066	0150	-0156	33880	651	2728	14430
066	0200	-0130	33946	616	2733	14451
066	0250	0004	34129	581	2742	14524
066	0300	0067	34281	528	2751	14563
066	0400	0125	34446	528	2760	14608
066	0500	0123	34498	510	2765	14624
066	0600	0106	34506	528	2767	14634
066	0700	0082	34512	510	2769	14640
066	0800	0053	34497	423	2769	14643
066	0900	0022	34487	475	2770	14646

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0131	32628	790	2614	14519	0000	00000	1879
0010	0125	32622	790	2614	14518	0019	00001	1880
0020	0127	32636	774	2615	14521	0038	00004	1871
0030	-0076	33352	826	2683	14440	0053	00008	1226
0050	-0135	33543	739	2700	14418	0076	00017	1059
0075	-0157	33729	721	2716	14415	0101	00033	0909
0100	-0163	33794	704	2722	14417	0123	00053	0856
0125	-0162	33842	678 B	2725	14422	0145	00077	0817
0150	-0156	33880	651	2728	14430	0165	00105	0789
0175	-0151	3391 B	632	2730	14437	0184	00138	0768
0200	-0130	33946	616	2733	14451	0203	00175	0744
0225	-0065 C	3403 B	600	2738	14487	0222	00215	0703
0250	0004	34129	581	2742	14524	0239	00257	0663
0300	0067	34281	528	2751	14563	0270	00345	0586
0400	0125	34446	528	2760	14608	0325	00541	0503
0500	0123	34498	510	2765	14624	0374	00766	0465
0600	0106	34506	528	2767	14633	0421	01027	0448
0700	0082	34512	510	2769	14639	0465	01322	0427
0800	0053	34497	423	2769	14643	0507	01651	0417

C-REF-NO 341 YR 1961 DEPTH 223 WAVES 1 32X4 AIR T 00.9 VIS 8
 CONS. NO 088 MONTH 9 MXSAMPD 02 WAVES 2 XX WET B 00.4 STN
 LAT 75-000N DAY 20 NO.DPTH 9 WND-DIR 310 WW-CODE 03
 LON 64-000W HR 16.2 W-COLOR WND-SPD 1C CLD-TPE 6
 MARSD SQ 259 C/I 1810 W-TRNSP BARO 985. CLD-AMT 5 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
162	0000	0150	32545		2607	14527
162	0010	0135	32552		2608	14522
162	0019	-0115	33611		2705	14423
162	0028	-0140	33670		2711	14414
162	0048	-0149	33754		2718	14414
162	0073	-0132	33790		2720	14427
162	0097	-0114	33845		2724	14440
162	0147	-0083	33923		2729	14464
162	0172	-0053	33963		2732	14483

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0150	32545		2607	14527	0000	00000	1954
0010	0135	32552		2608	14522	0020	00001	1939
0020	-0124	3364 E		2708	14420	0034	00003	0988
0030	-0143	33681		2712	14413	0044	00006	0952
0050	-0148	33758		2718	14415	0063	00013	0890
0075	-0130	33794		2721	14428	0085	00027	0866
0100	-0113	33850		2725	14441	0106	00046	0828
0125	-0098	33892		2728	14453	0127	00070	0800
0150	-0076	33932		2730	14468	0147	00098	0777

C-REF-NO 341	YR 1961	DEPTH 226	WAVES 1 28X2	AIR T 01.8	VIS 8
CONS. NO 089	MONTH 9	MXSAMPD 02	WAVES 2 2982	WET B 01.6	STM
LAT 74-56N	DAY 20	NO.DPTH 8	WND-DIR 280	WW-CODE 02	
LON 59-150W	HR 23.6	W-COLOR	WND-SPD 05	CLD-TPE C	
MARSD SQ 258	C/I 1810	W-TRNSP	BARC 992.	CLD-AMT 4	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
236	0000	0233	32097		2565	14557
236	0010	0260	32701		2611	14579
236	0020	0067	33300		2672	14503
236	0040	-0086	33615		2705	14441
236	0065	-0114	33696		2712	14433
236	0090	-0117	33749		2717	14436
236	0140	-0068	33856		2723	14469
236	0190	-0004	34010		2733	14509

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-C	POT.EN	SVA
0000	0233	32097		2565	14557	0000	00000	2350
0010	0260	32701		2611	14579	0021	00001	1913
0020	0067	33300		2672	14503	0038	00003	1331
0030	-0036 C	3355 I		2697	14461	0050	00006	1094
0050	-0110 B	3367 D		2710	14432	0071	00015	0970
0075	-0118	33719		2714	14433	0095	00030	0928
0100	-0111	33768		2718	14441	0118	00051	0891
0125	-0087	33821		2721	14457	0140	00076	0858
0150	-0065 B	3389 B		2726	14472	0161	00106	0814
0175	-0030	33963		2730	14494	0181	00139	0774

C-REF-NO 341	YR 1961	DEPTH 457	WAVES 1 30X3	AIR T 01.1	VIS 4
CONS. NO 090	MONTH 9	MXSAMPD 04	WAVES 2 2726	WET B 00.8	STN
LAT 74-195N	DAY 21	NO.DPTH 12	WND-DIR 300	WW-CODE 74	
LON 58-330W	HR 04.4	W-COLOR	WND-SPD 05	CLD-TPE	
MARSD SQ 258	C/I 1810	W-TRNSP	BARO 998.	CLD-AMT 9	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
044	0000	0269	32387		2585	14577
044	0010	0260	32158		2568	14572
044	0020	-0015	33429		2687	14468
044	0030	-0092	33574		2702	14436
044	0050	-0098	33670		2710	14437
044	0075	-0132	33713		2714	14426
044	0100	-0079	33711		2712	14455
044	0150	-0039	33921		2728	14485
044	0200	0005	34029		2734	14515
044	0250	0050	34171		2743	14546
044	0300	0068	34226		2747	14563
044	0400	0097	34357		2755	14594

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0269	32387		2585	14577	0000	00000	2157
0010	0260	32158		2568	14572	0023	00001	2324
0020	-0015	33429		2687	14468	0040	00004	1192
0030	-0092	33574		2702	14436	0052	00006	1050
0050	-0098	33670		2710	14437	0072	00015	0973
0075	-0132	33713		2714	14426	0096	00030	0928
0100	-0079	33711		2712	14455	0120	00051	0947
0125	-0054 B	3381 E		2719	14472	0143	00078	0885
0150	-0039	33921		2728	14485	0164	00108	0802
0175	-0017	3398 B		2731	14500	0184	00141	0767
0200	0005	34029		2734	14515	0203	00177	0740
0225	0029	3410 B		2739	14531	0221	00217	0697
0250	0050	34171		2743	14546	0238	00259	0658
0300	0068	34226		2747	14563	0270	00350	0628
0400	0097	34357		2755	14594	0330	00562	0550

C-REF-NO 341	YR 1961	DEPTH 567	WAVES 1 26X2	AIR T 00.2	WIND 11
CONS. NO C91	MONTH 9	MXSAMPD 05	WAVES 2 2026	WET B -00.1	WIND 11
LAT 74-C3CN	DAY 21	NO.DPTH 13	WND-DIR 300	WW-CODE 68	
LON 60-000W	HR 09.4	W-COLOR	WND-SPD 09	CLD-TPE 0	
MARSD SQ 259	C/I 1810	W-TRNSP	BARO 1002.	CLD-AMT 8	

O B S E R V E D

	GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
	C94	0000	0250	32305		2580	14568
	C94	0010	0260	31586		2522	14564
	C94	0020	0008	33148		2663	14474
	C94	0030	-0112	33452		2692	14424
3	C94	0050	-0152	33972		2736	14416
	C94	0075	-0159	33567		2703	14411
	C94	0100	-0158	33721		2716	14418
	C94	0150	-0137	33812		2722	14438
	C94	0200	-0044	33961		2731	14491
	C94	0250	0028	34101		2739	14535
	C94	0300	0070	34221		2746	14564
	C94	0400	0133	34415		2757	14611
	C94	0500	0130	34501		2765	14628

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SW
0000	0250	32305		2580	14568	0000	00000	2205
0010	0260	31586		2522	14564	0025	00001	2750
0020	0008	33148		2663	14474	0046	00004	1437
0030	-0112	33452		2692	14424	0059	00008	1337
0050	-0152	33972		2736	14416	0078	00015	0725
0075	-0159	33567		2703	14411	0100	00030	1032
0100	-0158	33721		2716	14418	0124	00051	0618
0125	-0154	3378 E		2720	14425	0147	00077	0344
0150	-0137	33812		2722	14438	0168	00108	0044
0175	-0094 B	33883		2727	14463	0189	00142	0076
0200	-0044	33961		2731	14491	0209	00181	0752
0225	-0005	34033		2735	14514	0228	00222	0442
0250	0028	34101		2739	14535	0246	00266	0097
0300	0070	34221		2746	14564	0279	00360	0081
0400	0133	34415		2757	14611	0338	00569	0011
0500	0130	34501		2765	14627	0389	00802	0046

C-REF-NO 341	YR 1961	DEPTH 523	WAVES 1 XX	AIR T -00.4	VIS 7
CONS. NO 092	MONTH 9	MXSAMPD 05	WAVES 2 3026	WET B -01.4	STN
LAT 73-300N	DAY 21	NO.DPTH 13	WND-DIR 300	WW-CODE 77	
LON 63-00CW	HR 16.5	W-COLOR	WND-SPD 03	CLD-TPE 7	
MARSD SQ 259	C/I 1810	W-TRNSP	BARO 1006.	CLD-AMT 9	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
165	0000	0243	31456	764	2513	14553
165	0010	0244	31436	764	2511	14555
165	0020	0242	31582	764	2523	14558
165	0030	-0018	33431	966	2687	14468
165	0050	-0142	33591	764	2705	14416
165	0075	-0156	33681	704	2712	14414
165	0100	-0149	33743	651	2717	14423
165	0150	-0103	33857	616	2725	14454
165	0200	-0033	34002	554	2734	14497
165	0250	0017	34117	545	2741	14530
165	0300	0096	34290	528	2750	14576
165	0400	0140	34449	510	2760	14615
165	0500	0102	34506	493	2767	14615

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0243	31456	764	2513	14553	0000	00000	2844
0010	0244	31436	764	2511	14555	0029	00001	2860
0020	0242	31582	764	2523	14558	0057	00006	2748
0030	-0018	33431	966	2687	14468	0077	00010	1188
0050	-0142	33591	764	2705	14416	0099	00019	1020
0075	-0156	33681	704	2712	14414	0124	00035	0946
0100	-0149	33743	651	2717	14423	0147	00056	0899
0125	-0130	33799	629 E	2721	14436	0169	00082	0860
0150	-0103	33857	616	2725	14454	0190	00111	0824
0175	-0068	33929	583 C	2729	14475	0211	00145	0782
0200	-0033	34002	554	2734	14497	0230	00182	0742
0225	-0009	34058	547 C	2737	14513	0248	00222	0711
0250	0017	34117	545	2741	14530	0266	00265	0680
0300	0096	34290	528	2750	14576	0298	00355	0598
0400	0140	34449	510	2760	14615	0354	00555	0513
0500	0102	34506	493	2767	14615	0402	00777	0443

C-REF-NO 341 YR 1961 DEPTH 2395 WAVES 1 01X1 AIR T -00.8 VTS
 CONS. NO C93 MONTH 9 MXSAMPD 20 WAVES 2 3482 WET B -01.8 STA
 LAT 72-47CN DAY 22 NO.DPTH 20 WND-DIR 360 WW-CODE 02
 LON 65-33OW HR 00.8 W-COLOR WND-SPD 04 CLD-TPE 7
 MARSD SQ 259 C/I 1810 W-TRNSP BARO 1018. CLD-AMT 8 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
008	0000	0157	31440	783	2518	14515
008	0010	0154	31435	790	2517	14515
008	0020	0070	32263	888	2589	14490
008	0030	-0104	32751	888	2635	14418
008	0049	-0164	32972	730	2655	14396
008	0073	-0168	33224	730	2676	14402
008	0098	-0167	33357	721	2686	14408
008	0146	-0159	33620	704	2707	14424
008	0194	-0146	33772	669	2719	14440
008	0242	-0137	33836	634	2724	14453
008	0291	-0045	34034	590	2737	14507
008	0391	0059	34281	528	2751	14575
008	0489	0110	34431	528	2760	14516
008	0588	0115	34488	510	2765	14635
008	0686	0103	34501	510	2766	14646
008	0783	0086	34502	493	2768	14655
008	0982	0051	34494	475	2769	14673
008	1182	0017	34494	431	2771	14691
008	1500	-0024	34487	353	2772	14726
008	2000	-0040	34509	318	2775	14804

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0157	31440	783	2518	14515	0000	00000	2799
0010	0154	31435	790	2517	14515	0028	00001	2801
0020	0070	32263	888	2589	14490	0053	00005	2122
0030	-0104	32751	888	2635	14418	0072	00010	1677
0040	-0165	32984	728 B	2656	14396	0104	00023	1480
0075	-0168	33237	729	2677	14402	0139	00045	1283
0100	-0167	33369	720	2687	14409	0170	00072	1181
0125	-0163	3351 B	713	2699	14417	0198	00105	1071
0150	-0158	33636	701	2709	14425	0224	00141	0974
0175	-0151	33724	684	2716	14434	0248	00181	0908
0200	-0147	3378 B	665	2720	14441	0270	00224	0866
0225	-0145	3381 C	647	2722	14446	0291	00271	0840
0250	-0124	3387 B	627	2726	14461	0312	00321	0805
0300	-0032	34062	582	2739	14515	0350	00427	0694
0400	0066	34299	527	2752	14579	0414	00654	0572
0500	0112	34441	526	2761	14619	0468	00903	0500

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0600	0114	34491	510	2765	14637	0517	01178	0466
0700	0101	34502	508	2767	14648	0563	01487	0449
0800	0083	34501	492	2768	14656	0608	01833	0437
1000	0048	34494	472	2769	14674	0694	02630	0416
1200	0014	34494	426	2771	14692	0776	03551	0389
1500	-0024	34487	353	2772	14725	0890	05128	0359
2000	-0040	34509	318	2775	14804	1062	08222	0321

C-REF-NO 341	YR 1961	DEPTH 2320	WAVES 1 32X2	AIR T -02.7	VIS 9
CONS. NO 094	MONTH 9	MXSAMPD 20	WAVES 2 3126	WET B -02.8	STN
LAT 72-137N	DAY 24	NO.DPTH 20	WND-DIR 300	WW-CODE C2	
LON 68-000W	HR 06.2	W-COLOR	WND-SPD 08	CLD-TPE 6	
MARSD SQ 259	C/I 1810	W-TRNSP	BARO 999.	CLD-AMT 8	HW

O B S E R V E D

	GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
	062	0000	0143	31287	949	2506	14506
	062	0010	0144	31274	774	2505	14508
	062	0020	0029	32574	896	2616	14476
	062	0030	-0092	32813	939	2640	14425
	062	0050	-0129	33040	913	2660	14414
	062	0074	-0162	33296	704	2681	14406
	062	0099	-0166	33431	704	2692	14410
	062	0148	-0162	33660	686	2711	14423
	062	0198	-0157	33799	660	2722	14436
	062	0248	-0126	33884	634	2728	14460
3	062	0298	-0046	33652	564	2706	14502
	062	0397	0062	34301	528	2753	14577
	062	0496	0121	34456	519	2762	14622
	062	0595	0121	34500	510	2765	14639
	062	0695	0103	34506	510	2767	14648
	062	0795	0084	34505	493	2768	14656
	062	0982	0068	34499		2768	14680
	062	1182	0025	34488		2770	14694
	062	1482	-0021	34497		2773	14724
	062	1982	-0040	34500		2774	14801

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0143	31287	949	2506	14506	0000	00000	2907
0010	0144	31274	774	2505	14508	0029	00002	2917
0020	0029	32574	896	2616	14476	0053	00005	1865
0030	-0092	32813	939	2640	14425	0071	00009	1633
0050	-0129	33040	913	2660	14414	0102	00022	1446
0075	-0162	33303	702 B	2682	14406	0136	00043	1234
0100	-0166	33436	704	2693	14410	0166	00070	1129
0125	-0165	33561	696	2703	14417	0193	00101	1032
0150	-0162	33667	685	2711	14424	0218	00136	0950
0175	-0161	33744	672	2718	14429	0241	00175	0889
0200	-0156	33806	659	2722	14437	0263	00217	0842
0225	-0145	3387 D	649 B	2727	14447	0283	00262	0797
0250	-0123	3387 B	631	2727	14462	0304	00311	0798
0300	-0043	3366 B	562	2707	14504	0349	00440	0994
0400	0065	34310	528	2753	14579	0427	00711	0563
0500	0122	34459	519	2762	14623	0481	00956	0493

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0600	0120	34501	510	2765	14640	0529	01229	0463
0700	0102	34506	505 C	2767	14648	0575	01537	0447
0800	0084	34505		2768	14657	0620	01880	0435
1000	0064	34498		2769	14681	0707	02688	0427
1200	0022	34488		2770	14696	0790	03633	0399
1500	-0022	3449 B		2773	14726	0906	05227	0359
2000	-0039	34501		2774	14804	1080	08355	0327

C-REF-NO 341	YR 1961	DEPTH 1930	WAVES 1 32X2	AIR T -02.6	VIS 9
CONS. NO 095	MONTH 9	MXSAMPD 15	WAVES 2 3126	WET B -03.1	STN
LAT 71-57CN	DAY 24	NO.DPTH 19	WND-DIR 330	WW-CODE 02	
LON 69-105W	HR 11.4	W-COLOR	WND-SPD 06	CLD-TPE 6	
MARSD SQ 259	C/I 1810	W-TRNSP	BARO 1000.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
114	0000	0088	30884		2477	14476
114	0010	0083	30643		2458	14472
114	0020	0110	32351		2593	14510
114	0030	-0078	32824		2641	14432
114	0050	-0143	33035		2660	14407
114	0075	-0165	33243		2677	14404
114	0100	-0165	33386		2689	14410
114	0150	-0162	33639		2709	14423
114	0200	-0152	33803		2722	14439
114	0250	-0114	33902		2729	14466
114	0300	-0036	34071		2739	14513
114	0400	0057	34309		2754	14576
114	0500	0102	34424		2760	14614
114	0600	0102	34478		2765	14631
114	0700	0089	34483		2766	14642
114	0800	0084	34500		2768	14657
114	1000	0041	34486		2769	14671
114	1200	0014	34485		2770	14692
114	1498	-0025	34490		2773	14725

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0088	30884		2477	14476	0000	00000	3184
0010	0083	30643		2458	14472	0033	00002	3365
0020	0110	32351		2593	14509	0060	00006	2077
0030	-0078	32824		2641	14432	0079	00010	1629
0050	-0143	33035		2660	14407	0110	00023	1447
0075	-0165	33243		2677	14404	0144	00045	1279
0100	-0165	33386		2689	14410	0175	00072	1168
0125	-0164	33521		2699	14417	0203	00104	1063
0150	-0162	33639		2709	14423	0229	00140	0971
0175	-0159	33731		2716	14430	0252	00180	0900
0200	-0152	33803		2722	14439	0274	00222	0846
0225	-0137	3385 B		2726	14450	0295	00268	0811
0250	-0114	33902		2729	14466	0315	00316	0781
0300	-0036	34071		2739	14513	0352	00420	0685
0400	0057	34309		2754	14575	0415	00643	0559
0500	0102	34424		2760	14614	0469	00890	0505
0600	0102	34478		2765	14631	0518	01167	0466

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0700	0089	34483		2766	14642	0565	01477	0454
0800	0084	34500		2768	14657	0610	01826	0439
1000	0041	34486		2769	14671	0696	02625	0416
1200	0014	34485		2770	14692	0778	03555	0395
1500	-0025	34490		2773	14725	0893	05135	0356

C-REF-NO 341	YR 1961	DEPTH 348	WAVES 1 34X2	AIR T -02.3	VIS 8
CONS. NO 096	MONTH 9	MXSAMPD 03	WAVES 2 3226	WET B -02.7	STN
LAT 71-400N	DAY 24	NO.DPTH 11	WND-DIR 340	WW-CODE 02	
LON 70-200W	HR 16.7	W-COLOR	WND-SPD 03	CLD-TPE 6	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 1001.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
167	0000	011	31826		2551	14499
167	0010	0111	31831		2552	14501
167	0020	0110	31856		2554	14503
167	0030	-0038	32627		2623	14447
167	0050	-0116	32762		2637	14416
167	0075	-0122	32984		2655	14421
167	0100	-0129	33220		2674	14425
167	0145	-0141	33546		2701	14431
167	0194	-0154	33733		2716	14436
167	0243	-0134	33945		2733	14456
167	0293	-0107	33953		2733	14477

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0110	31826		2551	14499	0000	00000	2477
0010	0111	31831		2552	14501	0025	00001	2474
0020	0110	31856		2554	14503	0050	00005	2454
0030	-0038	32627		2623	14447	0071	00010	1795
0050	-0116	32762		2637	14416	0106	00025	1663
0075	-0122	32984		2655	14421	0146	00050	1490
0100	-0129	33220		2674	14425	0181	00081	1305
0125	-0136	33418		2690	14428	0212	00117	1150
0150	-0143	33569		2703	14431	0239	00155	1031
0175	-0151	3367 C		2711	14433	0264	00197	0950
0200	-0153	3376 B		2719	14438	0287	00241	0875
0225	-0144	3388 C		2728	14448	0308	00287	0790
0250	-0135	3392 H		2731	14456	0328	00334	0760

C-REF-NO 341	YR 1961	DEPTH 192	WAVES 1 XX	AIR T -03.1	VIS 8
CONS. NO 097	MONTH 9	MXSAMPD 02	WAVES 2 3682	WET B -03.1	STN
LAT 71-330N	DAY 24	NO.DPTH 10	WND-DIR 290	WW-CODE C1	
LON 70-560W	HR 19.7	W-COLOR	WND-SPD 03	CLD-TPE 7	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 1001.	CLD-AMT 9	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	CXYGEN	SGMT	SOUND
197	0000	005	31249		2508	14464
197	0010	0074	31329		2514	14477
197	0020	0081	31591		2534	14486
197	0030	0095	31868		2556	14498
197	0050	-0065	32503		2614	14436
197	0075	-0113	32759		2636	14422
197	0100	-0120	32930		2650	14425
197	0125	-0125	33062		2661	14429
197	0150	-0128	33200		2673	14433
197	0175	-0136	33382		2687	14436

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0050	31249		2508	14464	0000	00000	2887
0010	0074	31329		2514	14477	0029	00001	2837
0020	0081	31591		2534	14486	0056	00006	2641
0030	0095	31868		2556	14498	0082	00012	2437
0050	-0065	32503		2614	14436	0125	00029	1878
0075	-0113	32759		2636	14422	0170	00058	1665
0100	-0120	32930		2650	14425	0210	00094	1530
0125	-0125	33062		2661	14429	0247	00136	1426
0150	-0128	33200		2673	14433	0282	00185	1318
0175	-0136	33382		2687	14436	0313	00237	1174

C-REF-NO 341 YR 1961 DEPTH 2286 WAVES 1 33X1 AIR T -02.2 VIS 8
 CONS. NO 098 MONTH 9 MXSAMPD 20 WAVES 2 3382 WET B -02.2 STN
 LAT 71-30CN DAY 25 NO.DPTH 20 WND-DIR 340 WW-CODE 01
 LON 65-00CW HR 08.3 W-COLOR WND-SPD 08 CLD-TPE 7
 MARSD SQ 259 C/I 1810 W-TRNSP BARO 1001. CLD-AMT 8 HW

O B S E R V E D

	GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
	083	0000	0075	30159	721	2420	14460
	083	0010	0065	30142	791	2419	14457
	083	0020	0144	31889	905	2554	14518
	083	0030	-0093	32713	915	2632	14423
	083	0050	-0150	32906	739	2649	14402
	083	0075	-0165	33165	792	2671	14403
	083	0100	-0166	33319	712	2683	14409
3	083	0150	-0163	32520	704	2618	14407
	083	0200	-0145	33774	669	2719	14442
	083	0250	-0117	33896	625	2729	14465
	083	0300	-0044	34045	581	2738	14509
	083	0400	0061	34307	545	2753	14577
	083	0495	0108	34442	528	2761	14616
	083	0595	0114	34484	501	2764	14636
	083	0695	0098	34499	493	2767	14646
	083	0795	0084	34506	476	2768	14656
	083	0995	0048	34492	458	2769	14673
	083	1195	0015	34484	405	2770	14692
	083	1495	-0026	34488	353	2773	14724
	083	1995	-0040	34501	335	2774	14803

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0075	30159	721	2420	14460	0000	00000	3732
0010	0065	30142	791	2419	14457	0038	00002	3740
0020	0144	31889	905	2554	14518	0069	00006	2449
0030	-0093	32713	915	2632	14423	0090	00012	1709
0050	-0150	32906	739	2649	14402	0122	00025	1544
0075	-0165	33165	792	2671	14403	0159	00048	1339
0100	-0166	33319	712	2683	14409	0191	00077	1219
0125	-0166	3288 I	697 I	2648	14407	0226	00117	1551
0150	-0163	32520	704	2618	14407	0268	00178	1829
0175	-0156	3309 I	689	2664	14423	0309	00245	1392
0200	-0145	33774	669	2719	14442	0337	00299	0870
0225	-0134	3390 I	648	2730	14452	0358	00344	0773
0250	-0117	33896	625	2729	14465	0378	00392	0784
0300	-0044	34045	581	2738	14509	0415	00497	0701
0400	0061	34307	545	2753	14577	0479	00723	0563
0500	0109	34446	527	2762	14617	0532	00968	0494

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0600	0113	34485	500	2764	14636	0581	01243	0470
0700	0097	34500	492	2767	14646	0628	01553	0448
0800	0083	34506	476	2768	14656	0672	01897	0434
1000	0047	34492	457	2769	14674	0758	02693	0417
1200	0014	34484	404	2770	14692	0841	03624	0396
1500	-0023	34485	352	2772	14726	0956	05219	0361
2000	-0040	34501	335	2774	14804	1131	08351	0326

C-REF-NO 341	YR 1961	DEPTH 77	WAVES 1 XX	AIR T -01.1	VIS 9
CONS. NO 099	MONTH 9	MXSAMPD 01	WAVES 2 3342	WET B -01.1	STN
LAT 70-065N	DAY 25	NO.DPTH 7	WND-DIR 220	WW-CODE	
LOD 66-580W	HR 19.2	W-COLOR	WND-SPD 03	CLD-TPE 4	
MARSD SQ 259	C/I 1810	W-TRNSP	BARO 1007.	CLD-AMT 2	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
192	0000	0069	30303	790	2432	14459
192	0010	0061	30376	800	2438	14458
192	0020	0111	30869	800	2475	14490
192	0030	0065	31211	809	2505	14475
192	0040	-0069	32217	834	2591	14429
192	0050	-0131	32527	791	2618	14406
192	0070	-0145	32630	756	2627	14404

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0069	30303	790	2432	14459	0000	00000	3619
0010	0061	30376	800	2438	14458	0036	00002	3559
0020	0111	30869	800	2475	14490	0070	00007	3207
0030	0065	31211	809	2505	14475	0101	00015	2922
0050	-0131	32527	791	2618	14406	0149	00033	1840

C-REF-NO 341	YR 1961	DEPTH 168	WAVES 1 XX	AIR T -01.1	VIS 9
CONS. NO 100	MONTH 9	MXSAMPD 01	WAVES 2 3442	WET B -01.1	STM
LAT 70-180N	DAY 25	NO.DPTH 8	WND-DIR	WW-CODE	
LON 66-000W	HR 22.1	W-COLOR	WND-SPD	CLD-TPE	
MARSD SQ 259	C/I 1810	W-TRNSP	BARO 992.	CLD-AMT	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
221	0000	0038	29977		2407	14441
221	0010	0111	31039		2488	14490
221	0020	-0024	32266		2593	14447
221	0030	-0121	32611		2625	14408
221	0050	-0156	32793		2640	14398
221	0075	-0142	33120		2666	14413
221	0100	-0143	33346		2685	14420
221	0125	-0141	33433		2692	14426

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0038	29977		2407	14441	0000	00000	3855
0010	0111	31039		2488	14490	0035	00002	3078
0020	-0024	32266		2593	14447	0061	00005	2077
0030	-0121	32611		2625	14408	0080	00010	1779
0050	-0156	32793		2640	14398	0115	00024	1629
0075	-0142	33120		2666	14413	0152	00048	1380
0100	-0143	33346		2685	14420	0185	00077	1205
0125	-0141	33433		2692	14426	0214	00111	1137

C-REF-NO 341	YR 1961	DEPTH 1244	WAVES 1	XX	AIR T	VIS 7
CONS. NO 101	MONTH 9	MXSAMPD 12	WAVES 2	XX	WET B	STN
LAT 70-260N	DAY 26	NO.DPTH 18	WND-DIR		WW-CODE C1	
LON 65-18CW	HR 01.0	W-COLOR	WND-SPD		CLD-TPE	
MARSD SQ 259	C/I 1810	W-TRNSP	BARO		CLD-AMT	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
C10	0000	0067	30075	791	2413	14455
C10	0010	0076	30346	791	2435	14465
C10	0020	0017	32340	949	2598	14467
C10	0030	-0082	32565	930	2620	14426
C10	0050	-0151	32817	730	2642	14400
C10	0075	-0151	33047	704	2661	14408
C10	0100	-0157	33278	704	2680	14412
C10	0150	-0160	33565	704	2703	14423
C10	0200	-0149	33754	678	2718	14439
C10	0250	-0133	33854	651	2726	14457
C10	0294	-0073	33991	590	2735	14494
C10	0392	0014	34245	546	2751	14554
C10	0490	0052	34382	545	2760	14589
C10	0590	0063	34433	545	2763	14612
C10	0688	0057	34466	510	2766	14626
C10	0788	0026	34467	528	2768	14628
C10	0984	0014	34470	484	2769	14656
010	1182	0009	34482	433	2770	14687

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0067	30075	791	2413	14455	0000	00000	3792
0010	0076	30346	791	2435	14465	0037	00002	3589
0020	0017	32340	949	2598	14467	0065	00006	2038
0030	-0082	32565	930	2620	14426	0085	00011	1826
0050	-0151	32817	730	2642	14400	0119	00025	1612
0075	-0151	33047	704	2661	14408	0158	00049	1433
0100	-0157	33278	704	2680	14412	0192	00079	1253
0125	-0160	3344 B	706	2693	14417	0222	00113	1124
0150	-0160	33565	704	2703	14423	0249	00152	1029
0175	-0156	33671	693	2711	14431	0274	00193	0947
0200	-0149	33754	678	2718	14439	0297	00237	0884
0225	-0145	3381 B	667 B	2722	14446	0318	00285	0844
0250	-0133	33854	651	2726	14457	0339	00336	0810
0300	-0066	34009	585	2736	14498	0378	00444	0717
0400	0019	34260	545	2752	14557	0443	00674	0571
0500	0054	34390	546	2760	14592	0497	00922	0496
0600	0063	34437	541 B	2764	14613	0546	01197	0468
0700	0053	34467	511 B	2767	14626	0591	01502	0439

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0800	0024	34467	527	2768	14629	0635	01836	0417
1000	0004 B	34472	495 I	2770	14654	0717	02599	0398
1200	0011	34483	425 B	2770	14691	0798	03508	0394

C-REF-NO 341	YR 1961	DEPTH 2177	WAVES 1 XX	AIR T -00.3	VIS 8
CONS. NO 102	MONTH 9	MXSAMPD 20	WAVES 2 3242	WET B -00.7	STN
LAT 70-450N	DAY 26	NO.DPTH 20	WND-DIR 100	WW-CODE 02	
LON 64-150W	HR 06.2	W-COLOR	WND-SPD 03	CLD-TPE 5	
MARSD SQ 259	C/I 1810	W-TRNSP	BARO 1011.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
C62	0000	0115	30608		2454	14485
C62	0010	0111	30613		2454	14484
C62	0020	0181	31521		2523	14530
C62	0030	-0105	32709		2632	14417
C62	0050	-0163	32895		2649	14396
C62	0075	-0164	33045		2661	14402
C62	0100	-0165	33198		2673	14407
C62	0150	-0151	33470		2695	14426
C62	0200	-0141	33664		2710	14442
C62	0250	-0146	33821		2723	14450
C62	0300	-0038	33982		2732	14511
C62	0400	0073	34282		2751	14582
C62	0499	0128	34443		2760	14626
C62	0599	0128	34493		2764	14643
C62	0699	0099	34495		2766	14647
C62	0799	0079	34493		2767	14654
C62	0999	0046	34486		2769	14673
C62	1198	0012	34484		2770	14691
C62	1498	-0026	34494		2773	14725
C62	1995	-0039	34502		2774	14804

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0115	30608		2454	14485	0000	00000	3409
0010	0111	30613		2454	14484	0034	00002	3403
0020	0181	31521		2523	14530	0065	00006	2752
0030	-0105	32709		2632	14417	0088	00012	1709
0050	-0163	32895		2649	14396	0120	00025	1549
0075	-0164	33045		2661	14402	0158	00049	1432
0100	-0165	33198		2673	14407	0193	00080	1312
0125	-0159	33342		2685	14416	0224	00116	1202
0150	-0151	33470		2695	14426	0253	00157	1104
0175	-0145	33574		2703	14435	0280	00202	1024
0200	-0141	33664		2710	14442	0305	00250	0955
0225	-0150 B	33745		2717	14443	0328	00300	0890
0250	-0146	33821		2723	14450	0350	00353	0831
0300	-0038	33982		2732	14511	0390	00465	0752
0400	0073	34282		2751	14582	0458	00705	0590
0500	0128	34444		2760	14626	0513	00960	0510

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0600	0128	34493		2764	14643	0563	01240	0475
0700	0099	34495		2766	14647	0610	01554	0453
0800	0079	34493		2767	14654	0655	01902	0440
1000	0046	34486		2769	14673	0742	02706	0420
1200	0012	34484		2770	14691	0825	03638	0394
1500	-0025	34490		2773	14725	0939	05217	0356
2000	-0039	34502		2774	14804	1112	08332	0327

C-REF-NO 341	YR 1961	DEPTH 2195	WAVES 1 XX	AIR T -00.5	VIS 9
CONS. NO 103	MONTH 9	MXSAMPD 20	WAVES 2 0442	WET B -02.2	STN
LAT 71-C50N	DAY 26	NO.DPTH 20	WND-DIR 040	WW-CODE 02	
LON 63-C7CW	HR 11.7	W-COLOR	WND-SPD 03	CLD-TPE 5	
MARSD SQ 259	C/I 1810	W-TRNSP	BARO 1012.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
117	0000	0173	30826	791	2468	14514
117	0010	0122	31029	809	2487	14495
117	0019	-0094	32604	800	2623	14419
117	0029	-0154	32724	790	2635	14394
117	0048	-0160	33146	730	2669	14401
117	0073	-0157	33146	713	2669	14406
117	0098	-0166	33290		2681	14408
117	0146	-0154	33602	704	2706	14426
117	0196	-0143	33789	695	2721	14442
117	0245	-0126	33874	643	2727	14459
117	0294	-0011	34040	573	2736	14523
117	0394	0066	34293	528	2752	14578
117	0494	0117	34442	510	2761	14620
117	0594	0116	34486	519	2764	14637
117	0694	0100	34502	510	2767	14646
117	0794	0080	34494	493	2767	14654
117	0983	0045	34496	453	2770	14670
117	1180	0010	34484	431	2771	14687
117	1480	-0028	34490	343	2773	14721
117	1978	-0040	34512	308	2775	14800

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0173	30826	791	2468	14514	0000	00000	3276
0010	0122	31029	809	2487	14495	0032	00002	3091
0020	-0105	3265 I	799	2628	14415	0056	00005	1752
0030	-0156	3275 B	787	2637	14394	0074	00009	1665
0050	-0160	3316 C	727	2670	14401	0104	00022	1350
0075	-0158	33155	712	2670	14406	0138	00043	1349
0100	-0166	33304	706 C	2682	14409	0170	00072	1231
0125	-0162	3347 C	704 B	2695	14417	0200	00106	1102
0150	-0153	33621	704	2707	14427	0226	00143	0987
0175	-0148	33725	702 B	2716	14435	0250	00183	0908
0200	-0144	33796	692	2721	14443	0272	00225	0854
0225	-0139	3384 C	668	2725	14449	0293	00271	0820
0250	-0115	33890	636	2728	14465	0314	00321	0790
0300	-0003	34058	568	2737	14528	0352	00428	0712
0400	0070	34305	526	2753	14581	0416	00657	0571
0500	0118	34447	510	2761	14621	0470	00905	0500

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0600	0115	34488	519	2764	14637	0519	01182	0469
0700	0099	34502	509	2767	14647	0566	01491	0448
0800	0079	34494	492	2767	14654	0611	01837	0439
1000	0042	34495	451	2770	14671	0697	02631	0410
1200	0007	34484	425 B	2771	14689	0778	03547	0390
1500	-0029	34485	364 I	2773	14723	0891	05119	0356
2000	-0039	34514	306 B	2775	14804	1062	08187	0318

C-REF-NO 341	YR 1961	DEPTH 2085	WAVES 1 XX	AIR T 00.6	VIS 9
CONS. NO 104	MONTH 9	MXSAMPD 20	WAVES 2 2242	WET B -01.1	STN
LAT 71-220N	DAY 26	NO.DPTH 20	WND-DIR 040	WW-CODE 01	
LON 61-55CW	HR 17.9	W-COLOR	WND-SPD 06	CLD-TPE 4	
MARSD SQ 259	C/I 1810	W-TRNSP	BARO 1012.	CLD-AMT 8	Hw

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
179	0000	0130	30611		2453	14491
179	0010	0125	30620		2454	14491
179	0020	0047	32357		2597	14481
179	0030	-0118	32844		2643	14413
179	0050	-0164	33056		2662	14398
179	0075	-0165	33238		2677	14404
179	0100	-0162	33361		2686	14411
179	0150	-0157	33630		2708	14426
179	0200	-0139	33776		2719	14444
179	0250	-0111	33882		2727	14467
179	0300	-0021	34060		2738	14520
179	0400	0128	34377		2755	14608
179	0488	0155	34480		2761	14636
179	0588	0158	34539		2766	14655
179	0688	0119	34521		2767	14654
179	0788	0098	34517		2768	14661
179	0988	0050	34511		2770	14673
179	1188	0014	34479		2770	14690
179	1488	-0026	34482		2772	14723
179	1988	-0039	34504		2775	14802

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0130	30611		2453	14491	0000	00000	3415
0010	0125	30620		2454	14491	0034	00002	3405
0020	0047	32357		2597	14481	0062	00006	2039
0030	-0118	32844		2643	14413	0080	00010	1601
0050	-0164	33056		2662	14398	0110	00023	1425
0075	-0165	33238		2677	14404	0145	00044	1283
0100	-0162	33361		2686	14411	0176	00072	1188
0125	-0160	3350 B		2698	14418	0204	00105	1079
0150	-0157	33630		2708	14426	0230	00141	0980
0175	-0149	33713		2715	14434	0254	00181	0917
0200	-0139	33776		2719	14444	0277	00224	0871
0225	-0130	3383 B		2723	14454	0298	00271	0833
0250	-0111	33882		2727	14467	0319	00321	0797
0300	-0021	34060		2738	14520	0356	00428	0701
0400	0128	34377		2755	14608	0420	00652	0558
0500	0157	34491		2762	14639	0473	00898	0498

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0600	0154	34539		2766	14655	0522	01171	0463
0700	0116	34520		2767	14655	0568	01479	0448
0800	0095	34517		2768	14662	0613	01823	0435
1000	0048	34509		2770	14674	0698	02607	0404
1200	0012	34478		2770	14691	0779	03528	0398
1500	-0026	3447 C		2771	14725	0896	05148	0370
2000	-0039	34506		2775	14804	1072	08303	0324

C-REF-NO 341	YR 1961	DEPTH 596	WAVES 1 XX	AIR T -00.9	VIS 3
CONS. NO 105	MONTH 9	MXSAMPD 05	WAVES 2 XX	WET B -00.9	STN
LAT 71-530N	DAY 27	NO.DPTH 14	WND-DIR 020	WW-CODE 75	
LON 59-470W	HR 01.4	W-COLOR	WND-SPD 11	CLD-TPE	
MARSD SQ 258	C/I 1810	W-TRNSP	BARO 1013.	CLD-AMT	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
C14	0000	C240	32196	756	2572	14562
C14	0010	C229	32139	783	2568	14558
014	0020	0332	32731	730	2607	14612
014	0029	0254	32865	817	2624	14582
C14	0048	-0141	33516	739	2698	14415
014	0073	-0156	33648	713	2710	14414
014	0098	-0162	33669	713	2711	14415
014	0146	-0108	33787	634	2719	14450
C14	0196	0004	33976	590	2730	14513
014	0246	0090	34167	545	2740	14563
C14	0295	0123	34299	528	2749	14588
014	0394	0171	34483	537	2760	14628
C14	0494	0162	34526	528	2764	14641
014	0544	0150	34521	528	2765	14644

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0240	32196	756	2572	14562	0000	00000	2280
0010	0229	32139	783	2568	14558	0023	00001	2316
0020	0332	32731	730	2607	14612	0045	00004	1950
0030	0233 B	3290 C	817 D	2629	14573	0063	00009	1743
0050	-0153 B	3354 C	735	2701	14410	0091	00020	1053
0075	-0157	33651	713	2710	14413	0117	00036	0968
0100	-0161	33672	710	2712	14416	0141	00058	0949
0125	-0140	33725	673 F	2715	14431	0164	00085	0913
0150	-0100	33801	630	2720	14455	0187	00117	0868
0175	-0045	33892	606 B	2725	14486	0208	00152	0820
0200	0012	33992	586	2731	14518	0228	00191	0772
0225	0059	34090	562	2736	14544	0247	00232	0725
0250	0094	34179	543	2741	14565	0265	00275	0680
0300	0126	34311	528	2750	14590	0297	00366	0604
0400	0172	34489	537	2761	14629	0353	00565	0508
0500	0164	3453 B	531 B	2765	14643	0403	00793	0472

C-REF-NO 341 YR 1961 DEPTH 247 WAVES 1 34X3 AIR T 00.0 VIS 8
 CONS. NO 106 MONTH 9 MXSAMPD 02 WAVES 2 3426 WET B -00.2 STN
 LAT 72-300N DAY 27 NO.DPTH 10 WND-DIR 340 WW-CODE 02
 LON 57-300W HR 08.3 W-COLOR WND-SPD 13 CLD-TPE 7
 MARSD SQ 258 C/I 1810 W-TRNSP BARO 1012. CLD-AMT 8 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
083	0000	0330	32489	748	2588	14605
083	0009	0323	32445	720	2585	14603
083	0019	0324	32489	720	2589	14605
083	0028	0343	32615	748	2597	14617
083	0047	-0020	33585	721	2700	14472
083	0071	-0127	33663	660	2710	14427
083	0095	-0105	33730	660	2715	14442
083	0142	-0015	33911	581	2726	14494
083	0190	0047	34061	528	2734	14533
083	0214	0055	34087	537	2736	14541

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0330	32489	748	2588	14605	0000	00000	2130
0010	0322	32445	719	2585	14603	0022	00001	2157
0020	0329	32496	723	2589	14608	0043	00004	2125
0030	0312 D	3271 I	748 B	2607	14605	0064	00010	1946
0050	-0048 B	3363 H	713 B	2704	14460	0094	00021	1023
0075	-0128	33674	659 B	2711	14427	0118	00037	0959
0100	-0096	33748	653 B	2716	14448	0142	00058	0912
0125	-0049	3384 B	614 E	2722	14475	0164	00084	0857
0150	-0001	33942	568 B	2727	14502	0185	00113	0804
0175	0033	34023	538 C	2732	14523	0205	00146	0760
0200	0050	3407 B	534 C	2735	14536	0224	00182	0736

C-REF-NO 341	YR 1961	DEPTH 612	WAVES 1 34X3	AIR T -00.2	VIS 8
CONS. NO 107	MONTH 9	MXSAMPD 06	WAVES 2 3446	WET B -00.8	STN
LAT 70-45CN	DAY 27	NO.DPTH 14	WND-DIR 340	WW-CODE 02	
LON 60-00W	HR 19.8	W-COLOR	WND-SPD 13	CLD-TPE 6	
MARSD SQ 259	C/I 1810	W-TRNSP	BARO 1014.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
198	0000	0220	32258	783	2579	14554
198	0010	0222	32247	774	2578	14556
198	0019	0235	32286	844	2580	14564
198	0029	0103	33254	825	2666	14520
198	0048	-0101	33589	756	2703	14435
198	0069	-0134	33746	686	2717	14425
198	0094	-0105	33743	678	2716	14442
198	0142	-0059	33902	608	2727	14474
198	0190	0056	34076	564	2735	14537
198	0242	0127	34264	554	2746	14580
198	0290	0176	34411	528	2754	14612
198	0387	0214	34544	502	2762	14646
198	0488	0161	34530	428	2765	14640
198	0567	0116	34515	428	2767	14633

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0220	32258	783	2579	14554	0000	00000	2219
0010	0222	32247	774	2578	14556	0022	00001	2229
0020	0225	3237 H	845 B	2587	14561	0044	00005	2135
0030	0089	3330 E	822	2671	14515	0062	00009	1344
0050	-0110	33612	748	2705	14431	0086	00018	1014
0075	-0130	3375 C	681 C	2717	14428	0110	00033	0899
0100	-0101	3376 B	671 B	2717	14446	0132	00054	0904
0125	-0079	3383 C	635 D	2722	14461	0155	00079	0853
0150	-0041	33930	599	2728	14484	0175	00109	0794
0175	0019 B	34021	575	2733	14517	0195	00141	0754
0200	0073	34113	561 B	2737	14547	0213	00177	0716
0225	0108	34204	556 B	2742	14568	0231	00215	0670
0250	0136	34291	550	2747	14586	0247	00255	0625
0300	0184	34433	526 B	2755	14617	0277	00338	0556
0400	0210	34547	491 C	2762	14647	0330	00528	0496
0500	0167 C	3455 D	443 I	2766	14644	0378	00751	0462

C-REF-NO 341	YR 1961	DEPTH 154	WAVES 1 34X4	AIR T 00.6	VIS 8
CONS. NO 108	MONTH 9	MXSAMPD 01	WAVES 2 XX	WET B -00.7	STN
LAT 70-000N	DAY 28	NO.DPTH 8	WND-DIR 340	WW-CODE 01	
LON 55-580W	HR 06.2	W-COLOR	WND-SPD 13	CLD-TPE 6	
MARSD SQ 258	C/I 1810	W-TRNSP	BARO 1012.	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
C62	0000	0332	33420	764	2662	14618
C62	0010	0328	33403	748	2661	14618
C62	0020	0328	33409	739	2661	14620
C62	0030	0326	33404	748	2661	14621
C62	0049	0010	33683	704	2706	14487
C62	0074	-0056	33811	634	2719	14463
C62	0098	0002	33921	581	2726	14495
C62	0123	0030	33988	537	2730	14513

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0332	33420	764	2662	14618	0000	00000	1428
0010	0328	33403	748	2661	14618	0014	00001	1438
0020	0328	33409	739	2661	14620	0029	00003	1434
0030	0326	33404	748	2661	14621	0043	00007	1437
0050	0002	33691	701	2707	14484	0068	00016	0999
0075	-0054	33816	632	2720	14464	0092	00031	0877
0100	-0021 F	33922	576	2727	14485	0113	00050	0810
0125	0036	33992	534	2730	14516	0133	00074	0786

C-REF-NO 341	YR 1961	DEPTH 293	WAVES 1 34X1	AIR T -00.3	VIS 9
CONS. NO 109	MONTH 9	MXSAMPD 02	WAVES 2 3526	WET B -00.3	STN
LAT 69-410N	DAY 28	NO.DPTH 10	WND-DIR 340	WW-CODE 02	
LON 58-090W	HR 11.9	W-COLOR	WND-SPD 04	CLD-TPE C	
MARSD SQ 222	C/I 1810	W-TRNSP	BARO 1013.	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
119	0000	0330	33690	739	2684	14621
119	0010	0326	33654	721	2681	14621
119	0020	0326	33661	729	2682	14622
119	0030	0200	33772	721	2701	14571
119	0050	-0004	33754	695	2712	14482
119	0075	-0051	33812	677	2719	14465
119	0100	0037	33965	634	2727	14512
119	0150	0104	34112	678	2735	14553
119	0200	0151	34291	554	2746	14584
119	0250	0205	34409	564	2752	14618

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0330	33690	739	2684	14621	0000	00000	1223
0010	0326	33654	721	2681	14621	0012	00001	1247
0020	0326	33661	729	2682	14622	0025	00003	1243
0030	0200	33772	721	2701	14571	0037	00006	1057
0050	-0004	33754	695	2712	14482	0057	00014	0948
0075	-0051	33812	677	2719	14465	0080	00028	0882
0100	0037	33965	634	2727	14512	0101	00047	0807
0125	0081 B	3405 D	656 I	2732	14537	0121	00070	0769
0150	0104	34112	678	2735	14553	0140	00097	0736
0175	0128	3420 B	618 I	2741	14569	0158	00127	0684
0200	0151	34291	554	2746	14584	0174	00159	0634
0225	0181	3434 B	586 I	2748	14602	0190	00193	0618
0250	0205	34409	564	2752	14618	0205	00230	0589

C-REF-NO 341	YR 1961	DEPTH 1700	WAVES 1 02X3	AIR T -00.6	VIS 8
CONS. NO 110	MONTH 9	MXSAMPD 15	WAVES 2 XX	WET B -01.0	STN
LAT 69-200N	DAY 28	NO.DPTH 19	WND-DIR 020	WW-CODE 02	
LON 60-000W	HR 17.8	W-COLOR	WND-SPD 13	CLD-TPE 7	
MARSD SQ 223	C/I 1810	W-TRNSP	BARO 1014.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
178	0000	0148	31608	809	2532	14513
178	0010	0139	31595	800	2531	14511
178	0020	0142	31635	799	2534	14514
178	0030	0151	32019	799	2564	14525
178	0050	-0159	33039	765	2660	14400
178	0075	-0153	33261	756	2678	14410
178	0100	-0142	33428	739	2691	14422
178	0150	-0147	33666	686	2711	14431
178	0200	-0124	33813	669	2722	14452
178	0250	-0059	33947	599	2730	14492
178	0300	0059	34161	581	2742	14558
178	0400	0196	34459	581	2756	14640
178	0500	0228	34578	581	2763	14672
178	0600	0190	34578	545	2766	14672
178	0700	0110	34522	528	2768	14652
178	0800	0082	34494	519	2767	14656
178	1000	0038	34481	397	2769	14669
178	1200	0007	34487	397	2771	14689
178	1500	-0028	34496	344	2773	14724

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0148	31608	809	2532	14513	0000	00000	2666
0010	0139	31595	800	2531	14511	0027	00001	2670
0020	0142	31635	799	2534	14514	0054	00005	2641
0030	0151	32019	799	2564	14525	0079	00012	2354
0050	-0159	33039	765	2660	14400	0117	00027	1439
0075	-0153	33261	756	2678	14410	0151	00048	1269
0100	-0142	33428	739	2691	14422	0181	00075	1142
0125	-0144	33561	712 C	2702	14427	0209	00107	1038
0150	-0147	33666	686	2711	14431	0234	00142	0955
0175	-0140	33746	679 D	2717	14439	0257	00181	0895
0200	-0124	33813	669	2722	14452	0279	00223	0847
0225	-0097	3388 B	634 D	2726	14469	0300	00269	0808
0250	-0059	33947	599	2730	14492	0320	00317	0770
0300	0059	34161	581	2742	14558	0356	00419	0671
0400	0196	34459	581	2756	14639	0418	00638	0550
0500	0228	34578	581	2763	14672	0471	00880	0493
0600	0190	34578	545	2766	14672	0519	01153	0464

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0700	0110	34522	528	2768	14652	0565	01459	0441
0800	0082	34494	519	2767	14656	0610	01804	0442
1000	0038	34481	397	2769	14669	0697	02607	0418
1200	0007	34487	397	2771	14689	0778	03529	0388
1500	-0028	34496	344	2773	14724	0890	05080	0349

C-REF-NO 341	YR 1961	DEPTH 1890	WAVES 1 36X2	AIR T -01.5	VIS
CONS. NO 111	MONTH 9	MXSAMPD 15	WAVES 2 0126	WET B -01.9	STN
LAT 69-050N	DAY 28	NO.DPTH 19	WND-DIP 360	WW-CODE 02	
LON 61-480W	HR 23.7	W-COLOR	WND-SPD 12	CLD-TPE	
MARSD SQ 223	C/I 1810	W-TRNSP	BARO 1017.	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
237	0000	0115	30907		2478	14489
237	0010	0106	30899		2477	14486
237	0019	0085	31224		2505	14483
237	0029	-0118	32688		2631	14411
237	0048	-0152	32920		2651	14401
237	0073	-0161	33081		2664	14403
237	0097	-0156	33210		2674	14411
237	0145	-0160	33474		2696	14421
237	0193	-0151	33654		2710	14436
237	0244	-0135	33754		2718	14453
237	0292	-0072	33913		2728	14493
237	0390	0102	34263		2747	14593
237	0488	0151	34443		2758	14634
237	0587	0133	34478		2763	14643
237	0687	0095	34482		2765	14643
237	0783	0102	34520		2768	14662
237	0975	0045	34479		2768	14668
237	1177	0017	34480		2770	14690
237	1474	-0022	34493		2773	14722

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0115	30907		2478	14489	0000	00000	3181
0010	0106	30899		2477	14486	0032	00002	3182
0020	0066 B	3137 I		2517	14476	0062	00006	2805
0030	-0126 B	3274 I		2635	14408	0085	00012	1677
0050	-0154	32936		2652	14401	0117	00025	1519
0075	-0161	33092		2665	14404	0154	00048	1396
0100	-0156	33228		2676	14412	0187	00078	1292
0125	-0158	3337 B		2687	14417	0219	00114	1181
0150	-0160	33497		2697	14423	0247	00154	1081
0175	-0155	33596		2705	14430	0273	00198	1004
0200	-0151	33668		2711	14437	0298	00245	0949
0225	-0144	3372 B		2715	14445	0321	00296	0911
0250	-0129	33772		2719	14457	0344	00351	0874
0300	-0057	33944		2730	14502	0385	00468	0771
0400	0111	34289		2749	14600	0455	00715	0612
0500	0151	34452		2759	14636	0513	00978	0522
0600	0127	34478		2763	14643	0564	01265	0486

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA--D	POT.EN	SVA
0700	0095	34487		2766	14645	0611	01582	0456
0800	0098	34519		2768	14663	0656	01930	0436
1000	0041	34478		2768	14670	0743	02734	0422
1200	0007 B	3447 B		2770	14689	0826	03674	0399
1500	-0023	34497		2773	14726	0941	05253	0352

C-REF-NO 341	YR 1961	DEPTH 1610	WAVES 1 XX	AIR T -01.8	VIS B
CONS. NO 112	MONTH 9	MXSAMPD 15	WAVES 2 3426	WET B -02.3	STN
LAT 68-520N	DAY 29	NO.DPTH 19	WND-DIR 340	WW-CODE 01	
LON 63-170W	HR 06.1	W-COLOR	WND-SPD 05	CLD-TPE 7	
MARSD SQ 223	C/I 1810	W-TRNSP	BARO 1019.	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
C61	0000	0102	31265	809	2507	14488
C61	0010	0095	31185	791	2501	14485
C61	0019	0071	31244	818	2507	14476
C61	0029	-0139	32549	861	2620	14399
C61	0048	-0163	32790	774	2640	14394
C61	0073	-0160	32978	764	2655	14402
C61	0097	-0151	33146	764	2669	14413
C61	0146	-0144	33510	695	2698	14429
C61	0194	-0144	33746	686	2717	14441
C61	0243	-0108	33897	625	2728	14468
C61	0292	-0024	34071	573	2739	14517
C61	0400	0054	34307	546	2754	14574
C61	0500	0073	34404	519	2760	14601
C61	0600	0072	34450	528	2764	14618
C61	0700	0062	34472	519	2767	14630
C61	0800	0050	34473	467	2767	14641
C61	1000	0027	34480	501	2769	14665
C61	1200	0002	34496	388	2772	14687
C61	1500	-0032	34496	344	2774	14722

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0102	31265	809	2507	14488	0000	00000	2901
0010	0095	31185	791	2501	14485	0029	00002	2958
0020	0051 B	3136 I	823	2517	14469	0058	00006	2800
0030	-0147 B	3260 H	858 C	2624	14396	0081	00012	1782
0050	-0164	32808	771 B	2642	14394	0116	00025	1616
0075	-0159	32992	764	2657	14403	0155	00050	1473
0100	-0150	33170	760 B	2671	14414	0190	00082	1338
0125	-0146	3336 B	727 F	2686	14423	0222	00118	1192
0150	-0145	33534	694 B	2700	14430	0250	00158	1057
0175	-0146	33665	689 D	2711	14436	0276	00200	0955
0200	-0142	33766	680	2719	14443	0299	00245	0877
0225	-0126	3385 B	650 C	2725	14456	0320	00291	0821
0250	-0097	33922	617	2730	14475	0340	00340	0772
0300	-0015	34094	569 B	2740	14523	0377	00443	0679
0400	0054	34307	546	2754	14574	0439	00664	0558
0500	0073	34404	519	2760	14601	0493	00910	0499
0600	0072	34450	528	2764	14617	0541	01184	0464

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0700	0062	34472	519	2767	14630	0587	01490	0441
0800	0050	34473	467	2767	14641	0631	01831	0432
1000	0027	34480	501	2769	14664	0716	02618	0410
1200	0002	34496	388	2772	14687	0796	03518	0377
1500	-0032	34496	344	2774	14722	0906	05041	0346

C-REF-NO 341	YR 1961	DEPTH 200	WAVES 1 01X1	AIR T -02.0	VIS 7
CONS. NO 113	MONTH 9	MXSAMPD 01	WAVES 2 0282	WET B -02.8	STN
LAT 68-370N	DAY 29	NO.DPTH 8	WND-DIR 010	WW-CODE	
LON 64-180W	HR 10.3	W-COLOR	WND-SPD 03	CLD-TPE 0	
MARSD SQ 223	C/I 1810	W-TRNSP	BARO 1020.	CLD-AMT 6	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
103	0000	0005	31094		2498	14441
103	0010	0003	31081		2497	14442
103	0020	-0084	32157		2587	14418
103	0030	-0099	32290		2598	14414
103	0050	-0141	32639		2627	14403
103	0075	-0155	32960		2654	14405
103	0100	-0146	33247		2677	14417
103	0150	-0137	33579		2703	14434

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0005	31094		2498	14441	0000	00000	2986
0010	0003	31081		2497	14442	0030	00002	2995
0020	-0084	32157		2587	14418	0056	00005	2139
0030	-0099	32290		2598	14414	0077	00011	2032
0050	-0141	32639		2627	14403	0115	00026	1751
0075	-0155	32960		2654	14405	0156	00052	1499
0100	-0146	33247		2677	14417	0191	00083	1280
0125	-0148	3344 B		2692	14423	0221	00118	1130
0150	-0137	33579		2703	14434	0248	00156	1025

C-REF-NO 341	YR 1961	DEPTH 77	WAVES 1 X2	AIR T -02.4	VIS 6
CONS. NO 114	MONTH 9	MXSAMPD 00	WAVES 2 0282	WET B -03.1	STN
LAT 68-33CN	DAY 29	NO.DPTH 4	WNC-DIR 020	WW-CODE 72	
LON 65-210W	HR 13.5	W-COLOR	WNO-SPD 03	CLD-TPE 6	
MARSD SQ 223	C/I 1810	W-TRNSP	BARO 1021.	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
135	0000	-0030	30765	826	2473	14420
135	0010	-0041	30749	826	2472	14417
135	0020	-0038	30844	826	2479	14421
135	0030	-0123	32456	818	2612	14405

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0030	30765	826	2473	14420	0000	00000	3226
0010	-0041	30749	826	2472	14417	0032	00002	3234
0020	-0038	30844	826	2479	14421	0065	00007	3161
0030	-0123	32456	818	2612	14405	0090	00013	1898

C-REF-NO 341	YR 1961	DEPTH 550	WAVES 1 34X4	AIR T -02.1	VIS
CONS. NO 115	MONTH 9	MXSAMPD 05	WAVES 2 3486	WET B -02.1	STN
LAT 66-400N	DAY 30	NO.DPTH 13	WND-DIR 340	WW-CODE 77	
LON 60-140W	HR 22.3	W-COLOR	WND-SPD 15	CLD-TPE	
MARSD SQ 223	C/I 1810	W-TRNSP	BARO 1020.	CLD-AMT	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
223	0000	0032	31567	756	2535	14460
223	0010	0045	31576	817	2535	14468
223	0019	0043	31551	817	2533	14468
223	0029	-0098	32421	809	2609	14416
223	0048	-0162	32761	774	2638	14394
223	0072	-0152	33036	774	2660	14407
223	0097	-0148	33233	756	2676	14416
223	0145	-0163	33505	756	2698	14420
223	0193	-0148	33643	721	2709	14437
223	0248	-0108	33825	564	2722	14468
223	0298	-0059	33947	616	2730	14500
223	0398	0069	34250	493	2748	14580
223	0498	0067	34383	545	2759	14597

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0032	31567	756	2535	14460	0000	00000	2636
0010	0045	31576	817	2535	14468	0027	00001	2635
0020	0031	3163 G	817	2540	14463	0053	00005	2588
0030	-0105	3246 E	807	2612	14414	0075	00011	1898
0050	-0163	32789	773	2640	14394	0111	00025	1631
0075	-0151	33063	772	2662	14408	0149	00050	1421
0100	-0149	33254	756	2677	14416	0183	00080	1273
0125	-0157	33408	755 C	2690	14418	0214	00115	1151
0150	-0163	33522	755	2700	14421	0242	00154	1061
0175	-0156	3360 B	742 B	2706	14430	0268	00197	1003
0200	-0144	33667	698 G	2711	14441	0292	00245	0952
0225	-0127	33750	624 I	2717	14454	0316	00295	0893
0250	-0106	33830	565 B	2723	14469	0337	00349	0839
0300	-0056	33954	614 B	2731	14502	0378	00462	0765
0400	0045 F	3422 H	564 I	2747	14568	0448	00710	0620
0500	0067	34386	544 B	2759	14598	0505	00971	0508

C-REF-NO 341	YR 1961	DEPTH 1010	WAVES 1 35X4	AIR T -00.3	VIS 7
CONS. NO 116	MONTH 10	MXSAMPD 09	WAVES 2 3246	WET B -01.3	STN
LAT 66-450N	DAY 01	NO.DPTH 17	WND-DIR 350	WW-CODE 72	
LON 59-COCW	HR 03.8	W-COLOR	WND-SPD 13	CLD-TPE 5	
MARSD SQ 222	C/I 1810	W-TRNSP	BARO 1016.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
C38	0000	0063	32321		2594	14485
C38	0010	0058	32325		2594	14484
C38	0020	0052	32359		2597	14483
C38	0030	0011	32744		2630	14472
C38	0050	-0142	33296		2681	14411
C38	0075	-0150	33423		2691	14414
C38	0100	-0156	33539		2701	14417
C38	0150	-0148	33682		2712	14431
C38	0200	-0114	33799		2721	14457
C38	0250	0000	34020		2734	14521
C38	0272	0092	34233		2746	14569
C38	0362	0115	34354		2754	14596
C38	0452	0068	34377		2759	14590
C38	0543	0074	34442		2763	14609
C38	0634	0069	34466		2766	14622
C38	0724	0069	34482		2767	14637
C38	0860	0045	34478		2768	14649

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0063	32321		2594	14485	0000	00000	2075
0010	0058	32325		2594	14484	0021	00001	2069
0020	0052	32359		2597	14483	0042	00004	2040
0030	0011	32744		2630	14472	0060	00009	1726
0050	-0142	33296		2681	14411	0090	00021	1246
0075	-0150	33423		2691	14414	0121	00040	1145
0100	-0156	33539		2701	14417	0148	00065	1053
0125	-0155	3362 B		2707	14422	0174	00094	0990
0150	-0148	33682		2712	14431	0198	00129	0943
0175	-0138	3374 B		2716	14440	0222	00167	0903
0200	-0114	33799		2721	14456	0244	00210	0862
0225	-0070	3388 D		2726	14482	0265	00256	0816
0250	0000	34020		2734	14521	0285	00304	0744
0300	0133 F	3434 I		2751	14594	0318	00398	0587
0400	0096 B	3437 B		2756	14594	0375	00602	0542
0500	0068	34411		2761	14599	0427	00842	0490
0600	0071	34460		2765	14617	0475	01112	0455
0700	0069	34479		2767	14633	0521	01415	0442
0800	0055	34482		2768	14644	0565	01755	0429

C-REF-NO 341	YR 1961	DEPTH 800	WAVES 1 36X3	AIR T 00.4	VIS 9
CONS. NO 117	MONTH 10	MXSAMPD 07	WAVES 2 3686	WET B -00.2	STN
LAT 66-570N	DAY 01	NO.DPTH 15	WND-DIR 360	WW-CODE 02	
LON 57-000W	HR 10.4	W-COLOR	WND-SPD 12	CLD-TPE 5	
MARSD SQ 222	C/I 1810	W-TRNSP	BARO 1017.	CLD-AMT 6	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
104	0000	0282	33517		2674	14598
104	0010	0278	33513		2674	14598
104	0020	0281	33525		2675	14601
104	0030	0282	33535		2675	14603
104	0050	0158	33633		2693	14554
104	0075	-0079	33718		2713	14451
104	0100	-0078	33821		2721	14457
104	0150	0130	34157		2737	14565
104	0200	0172	34315		2747	14594
104	0300	0150	34407		2756	14602
104	0400	0183	34520		2762	14635
104	0500	0134	34517		2766	14630
104	0600	0103	34517		2768	14632
104	0700	0054	34480		2768	14626
104	0750	0051	34476		2768	14633

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0282	33517		2674	14598	0000	00000	1313
0010	0278	33513		2674	14598	0013	00001	1313
0020	0281	33525		2675	14601	0026	00003	1307
0030	0282	33535		2675	14603	0040	00006	1301
0050	0158	33633		2693	14554	0064	00016	1134
0075	-0079	33718		2713	14451	0090	00032	0942
0100	-0078	33821		2721	14457	0113	00053	0863
0125	0019 F	3399 E		2730	14508	0134	00077	0779
0150	0130	34157		2737	14565	0153	00103	0720
0175	0164 B	3425 B		2742	14585	0170	00132	0672
0200	0172	34315		2747	14594	0187	00164	0632
0225	0171 B	3435 C		2750	14598	0202	00198	0604
0250	0166 C	3438 E		2752	14601	0217	00234	0581
0300	0150	34407		2756	14602	0246	00315	0549
0400	0183	34520		2762	14635	0298	00503	0493
0500	0134	34517		2766	14629	0346	00725	0460
0600	0103	34517		2768	14632	0392	00981	0438
0700	0054	34480		2768	14626	0436	01274	0429

C-REF-NO 341 YR 1961 DEPTH 88 WAVES 1 34X3 AIR T 00.3 VIS 6
 CONS. NO 118 MONTH 10 MXSAMPD 01 WAVES 2 3546 WET B 00.1 STN
 LAT 67-000N DAY 01 NO.DPTH 6 WND-DIR 340 WW-CODE 72
 LON 55-000W HR 16.3 W-COLOR WND-SPD 08 CLD-TPE 5
 MARSD SQ 222 C/I 1810 W-TRNSP BARO 1014. CLD-AMT 8 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
163	0000	0463	33269		2637	14672
163	0010	0405	33237		2640	14649
163	0020	0405	33236		2640	14650
163	0030	0405	33258		2642	14652
163	0050	0431	33558		2663	14670
163	0075	0430	33609		2667	14675

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0463	33269		2637	14672	0000	00000	1667
0010	0405	33237		2640	14649	0017	00001	1634
0020	0405	33236		2640	14650	0033	00003	1636
0030	0405	33258		2642	14652	0049	00008	1620
0050	0431	33558		2663	14670	0080	00020	1422
0075	0430	33609		2667	14675	0115	00043	1384

C-REF-NO 341	YR 1961	DEPTH 81	WAVES 1 XX	AIR T 00.4	VIS 8
CONS. NO 119	MONTH 10	MXSAMPD 01	WAVES 2 3282	WET B 00.2	STN
LAT 65-000N	DAY 02	NO.DPTH 7	WND-DIR 320	WW-CODE 01	
LON 53-400W	HR 06.3	W-COLOR	WND-SPD 05	CLD-TPE 6	
MARSD SQ 222	C/I 1810	W-TRNSP	BARO 1004.	CLD-AMT 3	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
C63	0000	0350	32761	726	2608	14617
C63	0010	0342		743		
C63	0020	0346	32712	735	2604	14618
C63	0030	0365	33001	735	2625	14632
C63	0040	0377	33120	708	2634	14640
C63	0050	0364	33349	708	2653	14639
063	0070	0325	33629	691	2679	14630

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0350	32761	726	2608	14617	0000	00000	1942
0010	0342	3275 I	743	2608	14615	0020	00001	1943
0020	0346	32712	735	2604	14618	0039	00004	1976
0030	0365	33001	735	2625	14632	0058	00009	1776
0050	0364	33349	708	2653	14639	0091	00022	1514

C-REF-NO 341 YR 1961 DEPTH 800 WAVES 1 01X2 AIR T -00.1 VIS 9
 CONS. NO 120 MONTH 10 MXSAMPD 07 WAVES 2 3546 WET B -00.7 STN
 LAT 65-CCON DAY 02 NO.DPTH 16 WND-DIR 020 WW-CODE
 LON 55-260W HR 11.4 W-COLOR WND-SPD 05 CLD-TPE 5
 MARSD SQ 222 C/I 1810 W-TRNSP BARO 1002. CLD-AMT 7 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
114	0000	0348	33662	744	2680	14629
114	0010	0346	33548	717	2671	14628
114	0020	0344	33565	717	2672	14629
114	0030	0345	33670	735	2681	14632
114	0050	0371	33813	726	2689	14649
114	0075	0436	34325	674	2723	14687
114	0100	0332	34327	682	2734	14647
114	0150	0314	34438	682	2745	14649
114	0200	0300	34538	656	2754	14653
114	0248	0308	34610	674	2759	14665
114	0298	0332	34673	674	2762	14685
114	0398	0335	34698	665	2763	14703
114	0498	0398	34816	656	2766	14748
114	0597	0421	34866	647	2768	14774
114	0696	0412	34877	630	2770	14787
114	0746	0419	34919	621	2772	14799

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0348	33662	744	2680	14629	0000	00000	1260
0010	0346	33548	717	2671	14628	0013	00001	1345
0020	0344	33565	717	2672	14629	0027	00003	1331
0030	0345	33670	735	2681	14632	0040	00006	1253
0050	0371	33813	726	2689	14649	0064	00016	1171
0075	0436	34325	674	2723	14687	0090	00032	0853
0100	0332	34327	682	2734	14647	0110	00050	0752
0125	0307 D	3437 B	685	2740	14641	0128	00071	0695
0150	0314	34438	682	2745	14649	0145	00095	0655
0175	0305	34490	668 C	2750	14650	0161	00121	0610
0200	0300	34538	656	2754	14653	0176	00150	0571
0225	0302	34578	664 C	2757	14658	0190	00181	0544
0250	0309	34613	674	2759	14666	0203	00214	0526
0300	0332	34674	674	2762	14685	0229	00287	0507
0400	0336	34700	665	2763	14703	0280	00470	0499
0500	0399	34818	656	2766	14748	0330	00700	0486
0600	0421	34866	647	2768	14774	0379	00977	0485
0700	0418	3489 C	630	2770	14790	0427	01300	0472

C-REF-NO 341	YR 1961	DEPTH 630	WAVES 1 XX	AIR T 00.8	VIS 8
CONS. NO 121	MONTH 10	MXSAMPD 06	WAVES 2 3482	WET B 00.3	STN
LAT 65-000N	DAY 02	NO.DPTH 14	WND-DIR 020	WW-CODE 02	
LON 58-300W	HR 20.2	W-COLOR	WND-SPD 03	CLD-TPE 5	
MARSD SQ 222	C/I 1810	W-TRNSP	BARO 1001.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
202	0000	0331	33770	717	2690	14623
202	0010	0323	33761	735	2690	14621
202	0020	0327	33782	744	2691	14624
202	0030	0329	33779	744	2691	14627
202	0050	0330	33785	735	2691	14631
202	0075	0285	34010	700	2713	14619
202	0100	0212	34218	700	2736	14594
202	0150	0233	34369	665	2746	14613
202	0200	0249	34472	656	2753	14630
202	0250	0285	34575	656	2758	14655
202	0300	0312	34648	639	2761	14676
202	0400	0228	34611	330	2766	14656
202	0500	0190	34606	534	2769	14656
202	0600	0203	34648	525	2771	14678

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0331	33770	717	2690	14623	0000	00000	1163
0010	0323	33761	735	2690	14621	0012	00001	1164
0020	0327	33782	744	2691	14624	0023	00002	1152
0030	0329	33779	744	2691	14627	0035	00005	1157
0050	0330	33785	735	2691	14631	0058	00015	1154
0075	0285	34010	700	2713	14618	0085	00032	0947
0100	0212	34218	700	2736	14594	0106	00050	0732
0125	0209 C	3432 D	684 C	2744	14598	0123	00070	0654
0150	0233	34369	665	2746	14613	0140	00093	0637
0175	0240	34424	658	2750	14621	0155	00119	0603
0200	0249	34472	656	2753	14630	0170	00148	0575
0225	0266	34525	657	2756	14642	0184	00179	0552
0250	0285	34575	656	2758	14655	0198	00212	0533
0300	0312	34648	639	2761	14676	0224	00286	0506
0400	0228	34611	330	2766	14656	0273	00461	0463
0500	0190	34606	534	2769	14655	0319	00672	0439
0600	0203	34648	525	2771	14678	0362	00918	0423

C-REF-NO 341	YR 1961	DEPTH 262	WAVES 1 04X2	AIR T -01.1	VIS 5
CONS. NO 122	MONTH 10	MXSAMPD 02	WAVES 2 0526	WET B -01.2	STN
LAT 65-000N	DAY 03	NO.DPTH 9	WND-DIR 040	WW-CODE 72	
LON 61-200W	HR 04.4	W-COLOR	WND-SPD 08	CLD-TPE	
MARSD SQ 223	C/I 1810	W-TRNSP	BARO 1000.	CLD-AMT	HW

O B S E R V E D

	GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
	C44	0000	0050	32274	805	2591	14478
	C44	0010	0046	32250	805	2589	14477
3	C44	0020	0044	32629	814	2620	14483
	C44	0030	0050	32452	805	2605	14485
	C44	0050	-0098	32971	761	2653	14428
	C44	0075	-0151	33302	726	2681	14411
	C44	0100	-0151	33395	717	2689	14417
	C44	0150	-0158	33617	726	2707	14425
	C44	0200	-0140	33745	691	2717	14444

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0050	32274	805	2591	14478	0000	00000	2104
0010	0046	32250	805	2589	14477	0021	00001	2120
0020	0044	32629	814	2620	14483	0041	00004	1830
0030	0050	32452	805	2605	14485	0060	00009	1968
0050	-0098	32971	761	2653	14428	0095	00023	1509
0075	-0151	33302	726	2681	14411	0130	00045	1238
0100	-0151	33395	717	2689	14417	0160	00072	1165
0125	-0155	3351 B	722 C	2698	14420	0188	00104	1075
0150	-0158	33617	726	2707	14425	0214	00141	0989
0175	-0148	3368 C	704 E	2712	14435	0239	00181	0946
0200	-0140	33745	691	2717	14443	0262	00226	0894

C-REF-NO 341	YR 1961	DEPTH 236	WAVES 1 24X4	AIR T 00.6	VIS 7
CONS. NO 123	MONTH 10	MXSAMPD 02	WAVES 2 2429	WET B 00.4	STN
LAT 62-300N	DAY 03	NO.DPTH 9	WND-DIR 240	WW-CODE 02	
LON 63-C00W	HR 21.7	W-COLOR	WND-SPD 12	CLD-TPE 5	
MARSD SQ 223	C/I 1810	W-TRNSP	BARO 1002.	CLD-AMT 6	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
217	0000	0035	32168	813	2583	14470
217	0010	0024	32154	830	2582	14466
217	0020	0023	32154	805	2582	14467
217	0030	0024	32156	805	2582	14469
217	0050	-0092	32685	761	2630	14426
217	0075	-0149	33063	735	2662	14409
217	0100	-0135	33321	717	2683	14423
217	0150	-0105	33631	691	2707	14450
217	0200	-0048	33809	665	2719	14487

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0035	32168	813	2583	14470	0000	00000	2178
0010	0024	32154	830	2582	14466	0022	00001	2183
0020	0023	32154	805	2582	14467	0044	00005	2183
0030	0024	32156	805	2582	14469	0066	00010	2181
0050	-0092	32685	761	2630	14426	0105	00026	1730
0075	-0149	33063	735	2662	14409	0145	00051	1422
0100	-0135	33321	717	2683	14423	0178	00080	1226
0125	-0122	3350 B	703	2697	14436	0207	00114	1091
0150	-0105	33631	691	2707	14450	0234	00151	0996
0175	-0077	3375 C	676	2716	14469	0258	00191	0911
0200	-0048	33809	665	2719	14487	0280	00234	0881

C-REF-NO 341 YR 1961 DEPTH 644 WAVES 1 32X4 AIR T 01.2 VIS 8
 CONS. NO 124 MONTH 10 MXSAMPD 06 WAVES 2 XX WET B 00.9 STN
 LAT 61-30CN DAY 04 NO.DPTH 14 WND-DIR 320 WW-CODE 02
 LON 63-000W HR 05.1 W-COLOR WND-SPD 13 CLD-TPE 5
 MARSD SQ 223 C/I 1810 W-TRNSP BARO 1007. CLD-AMT 7 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
051	0000	0290	33375	735	2662	14600
051	0010	0278	33372	735	2663	14596
051	0020	0278	33371	735	2663	14598
051	0030	0278	33370	735	2663	14599
051	0050	0281	33371	735	2663	14604
051	0075	0259	33791	691	2698	14604
051	0100	0226	34118	656	2727	14598
051	0150	0298	34590	630	2758	14644
051	0184	0345	34730	630	2765	14672
051	0232	0366	34800	612	2768	14690
051	0279	0374	34833	621	2770	14701
051	0375	0382	34874	621	2773	14721
051	0472	0379	34872	621	2773	14736
051	0570	0379	34868	621	2772	14752

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0290	33375	735	2662	14600	0000	00000	1427
0010	0278	33372	735	2663	14596	0014	00001	1420
0020	0278	33371	735	2663	14598	0029	00003	1421
0030	0278	33370	735	2663	14599	0043	00007	1422
0050	0281	33371	735	2663	14604	0072	00018	1425
0075	0259	33791	691	2698	14604	0103	00038	1091
0100	0226	34118	656	2727	14598	0127	00059	0818
0125	0251 C	34389	637	2746	14617	0146	00080	0635
0150	0298	34590	630	2758	14644	0160	00101	0526
0175	0334	34704	630	2764	14665	0173	00122	0476
0200	0356	3476 B	624 B	2767	14680	0185	00144	0454
0225	0365	34796	614	2768	14688	0196	00169	0442
0250	0370	34815	614	2769	14695	0207	00196	0434
0300	0377	34845	622	2771	14706	0229	00257	0423
0400	0382	34876	621	2773	14725	0271	00409	0415
0500	0381	34878	621	2773	14741	0313	00605	0421

C-REF-NO 341	YR 1961	DEPTH 375	WAVES 1 22X3	AIR T 02.0	VIS
CONS. NO 125	MONTH 10	MXSAMPD 03	WAVES 2 2246	WET B 01.7	STN
LAT 60-300N	DAY 05	NO.DPTH 12	WND-DIR 200	WW-CODE 02	
LON 63-COCW	HR 01.6	W-COLOR	WND-SPD 08	CLD-TPE	
MARSD SQ 223	C/I 1810	W-TRNSP	BARO 1012.	CLD-AMT	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
C16	0000	0130	32028	770	2566	14511
016	0010	0117	32018	770	2566	14506
016	0020	0132	33103	761	2652	14530
C16	0030	0131	33131	761	2655	14531
C16	0049	0139	33171	752	2657	14539
016	0073	0212	33583	709	2685	14581
016	0098	0224	33794	700	2701	14593
016	0148	0241	34171	665	2730	14614
016	0196	0246	34401	647	2748	14627
016	0246	0317	34629	647	2760	14669
C16	0296	0360	34788	630	2768	14698
016	0345	0365	34804	630	2769	14708

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0130	32028	770	2566	14511	0000	00000	2335
0010	0117	32018	770	2566	14506	0023	00001	2335
0020	0132	33103	761	2652	14530	0043	00004	1519
0030	0131	33131	761	2655	14531	0058	00008	1497
0050	0142	3319 B	750	2658	14540	0088	00020	1462
0075	0214	33604	708	2687	14582	0121	00041	1197
0100	0225	33811	699	2702	14594	0150	00066	1049
0125	0235	34010	681 B	2717	14605	0174	00095	0908
0150	0241	34182	664	2731	14614	0196	00124	0784
0175	0241	3431 B	653	2741	14620	0214	00155	0690
0200	0251	34421	647	2749	14630	0231	00187	0616
0225	0285 B	34538	647 B	2755	14650	0246	00219	0558
0250	0322	34646	646	2760	14672	0259	00252	0514
0300	0360	3478 C	635 D	2768	14698	0283	00321	0453

SECTION IV

Bathythermograms

EXPLANATION OF DATA HEADINGS IN TABLES 3 AND 4

CON No.:		The consecutive BT slide number.
LAT:		Position of platform at time of BT lowering.
LONG:		
DATE:	Day Mon. Yr.	Day Month Year
GMT:	Hrs. Min.	The Greenwich Mean Time at which the BT lowering was made.

CCGS "JOHN A. MACDONALD"

BATHYTHERMOGRAMS

TABLE 3

ON No	LAT		LONG		DATE			GMT	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min
1	80	27	087	23	22	08	61	19	00
2	77	26	089	22	24	08	61	07	30
3	77	02	089	22	24	08	61	14	00
4	75	53	095	08	25	08	61	20	10
5	75	53	095	08	26	08	61	2	40
6	75	53	095	08	28	08	61	21	15
7	75	53	095	08	28	08	61	22	12
8	75	53	095	08	28	08	61	23	05
9	75	53	095	08	29	08	61	0	32
10	75	53	095	08	29	08	61	01	00
11	75	53	095	08	29	08	61	02	00
12	75	53	095	08	29	08	61	03	00
13	75	53	095	08	29	08	61	04	00
14	75	53	095	08	29	08	61	05	00
15	75	53	095	08	29	08	61	06	00
16	75	53	095	08	29	08	61	07	00
17	75	53	095	08	29	08	61	08	00
18	75	53	095	08	29	08	61	09	00
19	75	53	095	08	29	08	61	10	00
20	75	53	095	08	29	08	61	11	00
21	75	53	095	08	29	08	61	12	00
22	75	53	095	08	29	08	61	13	00
23	75	53	095	08	29	08	61	14	00
24	75	53	095	08	29	08	61	15	00
25	75	53	095	08	29	08	61	16	00
26	75	53	095	08	29	08	61	17	00
27	75	53	095	08	29	08	61	18	00
28	75	53	095	08	29	08	61	19	00
29	75	53	095	08	29	08	61	20	00
30	75	53	095	08	29	08	61	21	00

TABLE 3

CON No	LAT		LONG		DATE			GMT	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min
31	75	24	093	02	30	08	61	03	05
32	75	23	093	26	30	08	61	04	20
33	76	50	097	22	30	08	61	17	20
34	76	09	096	17	30	08	61	23	40
35	76	05	096	04	31	08	61	00	35
36	76	04	095	10	31	08	61	03	25
37	75	55	095	04	31	08	61	12	25
38	75	58	094	59	31	08	61	13	23
39	75	54	095	40	31	08	61	14	35
40	75	53	094	57	31	08	61	15	43
41	75	51	095	44	31	08	61	17	15
42	75	49	094	56	31	08	61	18	35
43	75	11	105	22	03	09	61	01	45
44	75	10	105	39	03	09	61	02	30
45	75	08	105	01	03	09	61	04	00
46	75	05	103	22	03	09	61	13	00
47	75	04	102	31	03	09	61	15	00
48	75	05	101	40	03	09	61	17	25
49	75	04	100	55	03	09	61	19	08
50	75	15	101	20	03	09	61	21	15
51	75	22	101	43	03	09	61	22	25
52	75	28	102	02	03	09	61	23	40
53	75	28	102	54	04	09	61	00	15
54	75	27	103	40	04	09	61	02	35
55	75	25	103	04	04	09	61	03	50
56	75	23	102	28	04	09	61	05	05
57	75	21	101	48	04	09	61	06	55
58	75	19	102	35	04	09	61	12	15
59	75	17	103	19	04	09	61	13	25
60	75	16	102	39	04	09	61	14	35

TABLE 3

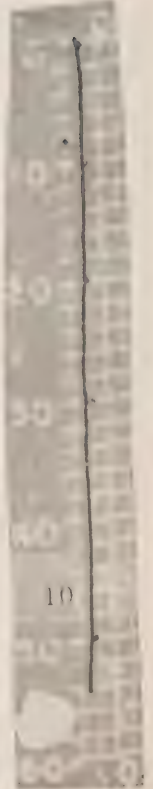
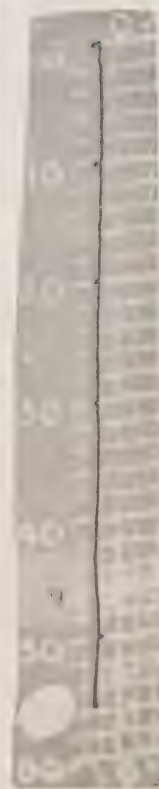
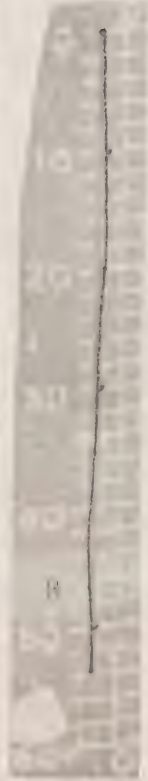
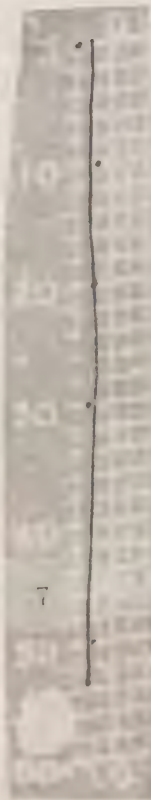
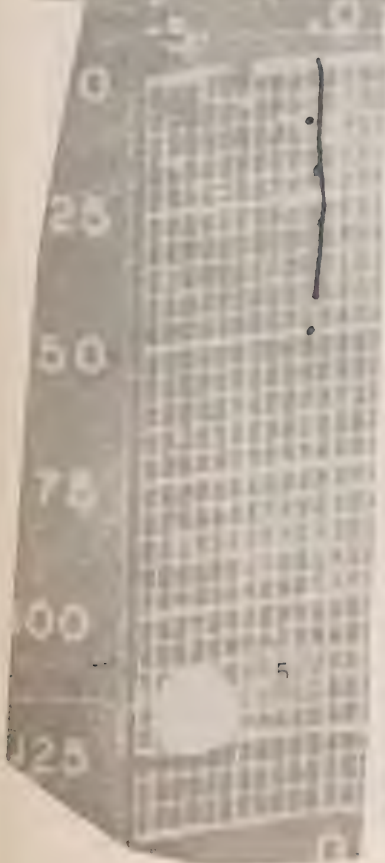
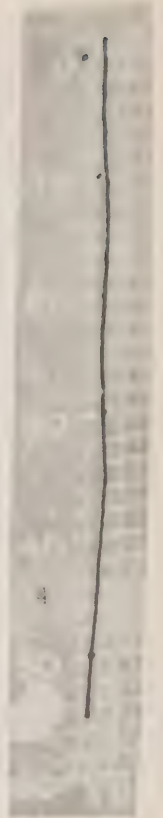
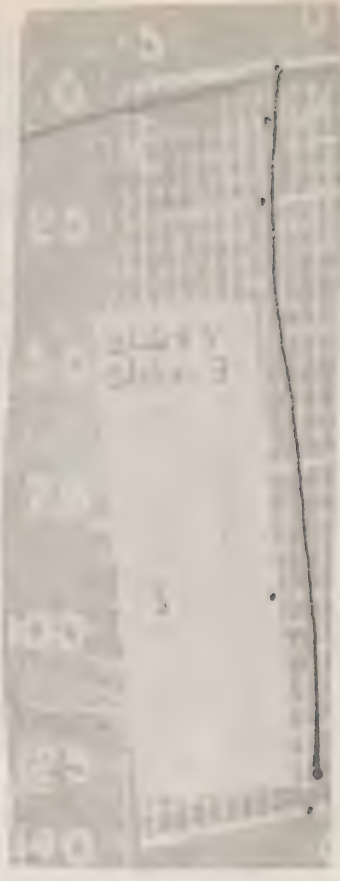
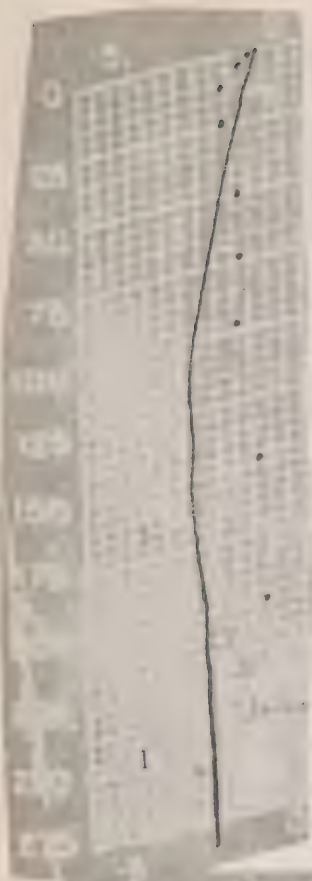
CON No	LAT		LONG		DATE			GA	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min
61	75	15	102	00	04	09	61	15	15
62	75	14	101	20	04	09	61	17	00
63	75	08	101	42	04	09	61	2	18
64	75	04	102	47	04	09	61	23	00
65	75	26	101	13	05	09	61	24	20
66	74	55	104	56	05	09	61	19	28
67	74	47	104	55	05	09	61	20	29
68	74	37	104	47	05	09	61	21	20
69	74	27	104	43	05	09	61	22	29
71	74	07	104	23	06	09	61	01	10
72	73	59	104	13	06	09	61	01	10
73	73	59	103	36	06	09	61	02	18
74	73	57	102	57	06	09	61	03	18
75	73	57	102	15	06	09	61	04	01
76	73	56	101	11	06	09	61	05	18
77	74	02	100	52	06	09	61	07	00
78	74	09	100	25	06	09	61	08	00
79	74	14	099	54	06	09	61	09	00
80	74	22	099	33	06	09	61	11	00
81	74	27	099	00	06	09	61	12	18
82	74	32	098	24	06	09	61	13	18
83	74	40	098	03	06	09	61	14	18
84	74	42	097	24	06	09	61	15	48
85	74	41	096	46	06	09	61	16	10
86	75	25	092	35	09	09	61	12	1
87	75	24	093	02	09	09	61	13	01
88	75	23	093	26	09	09	61	14	02
89	72	08	093	40	10	09	61	13	00
90	72	00	093	40	10	09	61	14	00
91	71	53	093	40	10	09	61	15	00

TABLE 3

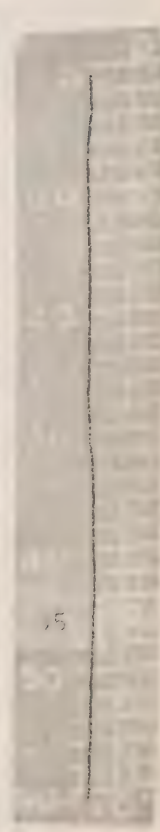
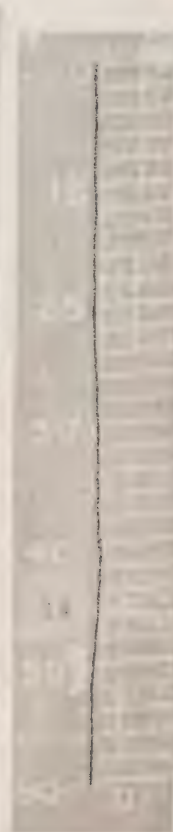
CON No	LAT		LONG		DATE			GMT	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min
92	71	47	093	25	10	09	61	17	02
93	71	49	092	37	10	09	61	18	45
94	71	51	091	50	10	09	61	20	23
95	71	52	091	03	10	09	61	22	12
96	71	54	090	17	11	09	61	00	27
97	71	04	090	00	11	09	61	06	12
98	70	56	090	40	11	09	61	08	45
99	70	48	091	18	11	09	61	10	55
100	70	50	091	58	11	09	61	13	25
101	70	20	091	22	11	09	61	17	30
102	70	19	090	40	11	09	61	19	09
103	70	19	090	00	11	09	61	21	00
104	70	18	089	15	11	09	61	23	03
105	70	18	088	30	12	09	61	00	43
106	70	00	088	40	12	09	61	03	15
107	69	41	088	52	12	09	61	05	45
108	69	22	089	04	12	09	61	08	55
109	69	51	086	43	12	09	61	16	50
110	69	54	085	40	12	09	61	20	27
111	69	55	084	20	12	09	61	23	26
112	69	50	083	00	13	09	61	11	58
113	69	39	081	50	13	09	61	14	51
114	69	24	081	01	13	09	61	18	05
115	69	12	080	17	13	09	61	20	13
116	68	51	080	18	13	09	61	22	17
117	68	50	080	55	14	09	61	01	48
118	67	59	080	44	14	09	61	05	02
119	67	00	080	18	14	09	61	09	07

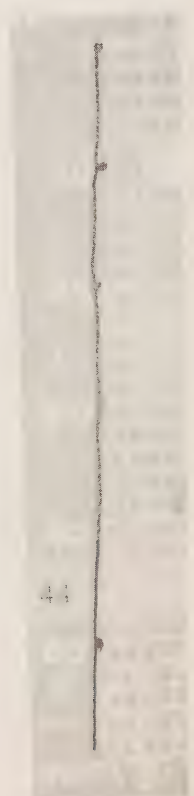
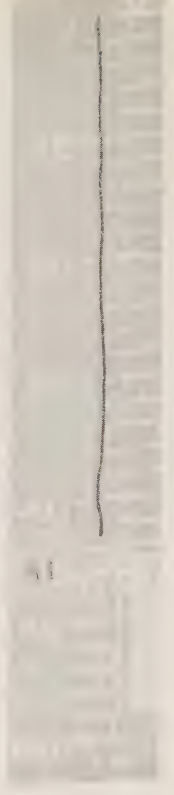
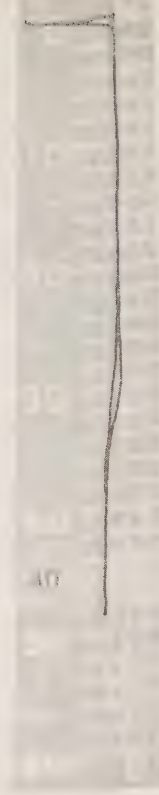
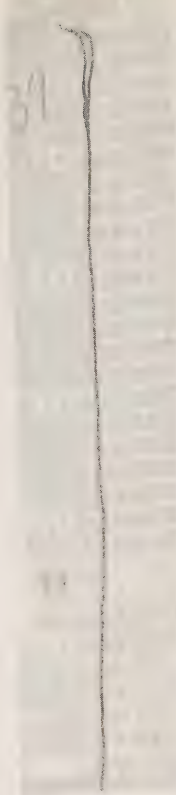
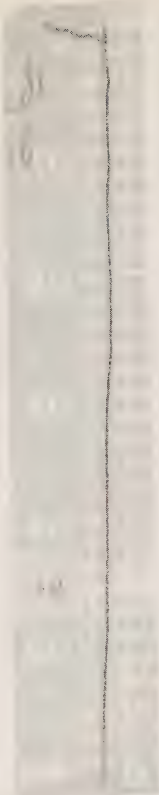
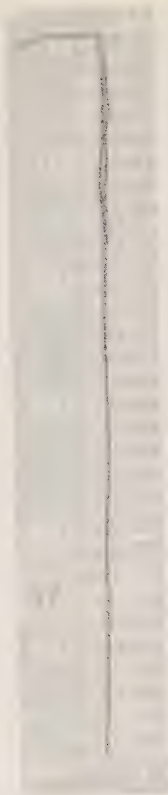
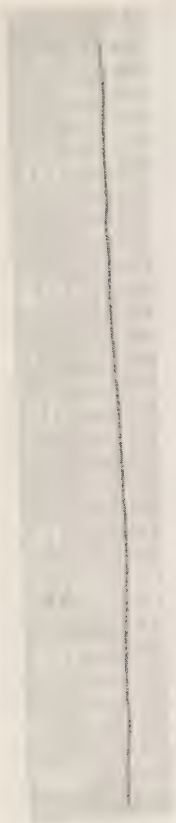
TABLE 3

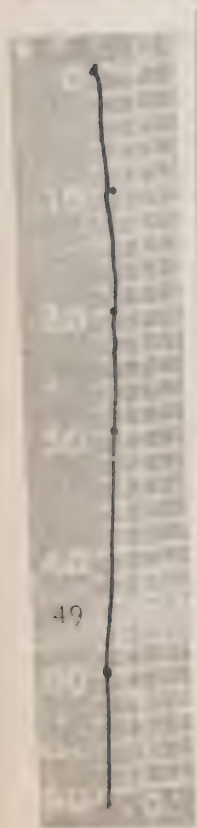
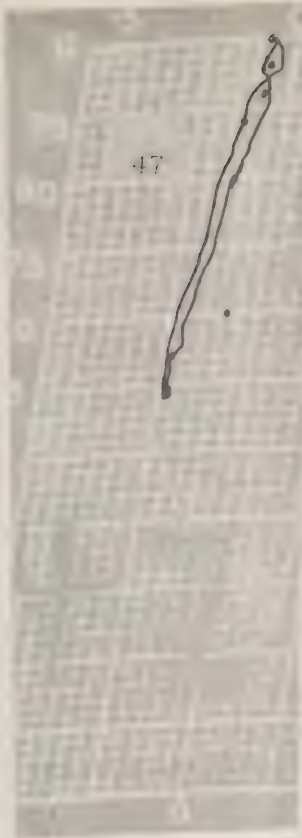
CON No	LAT		LONG		DATE			GALT	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Mins
120	66	12	079	50	14	09	61	13	45
121	65	30	079	28	14	09	61	17	23
122	64	55	078	41	14	09	61	21	02
123	64	05	078	42	15	09	61	01	33

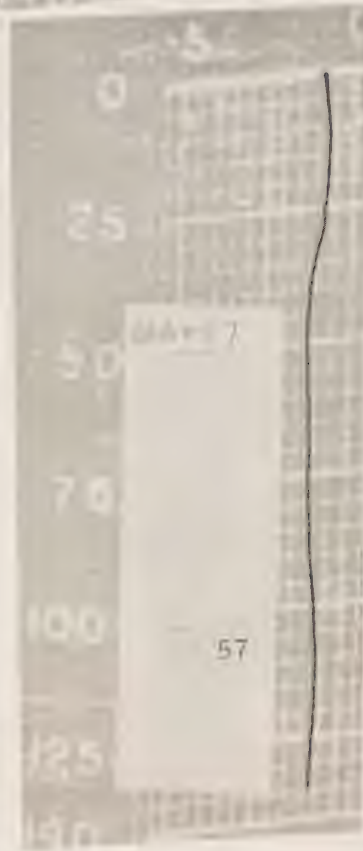


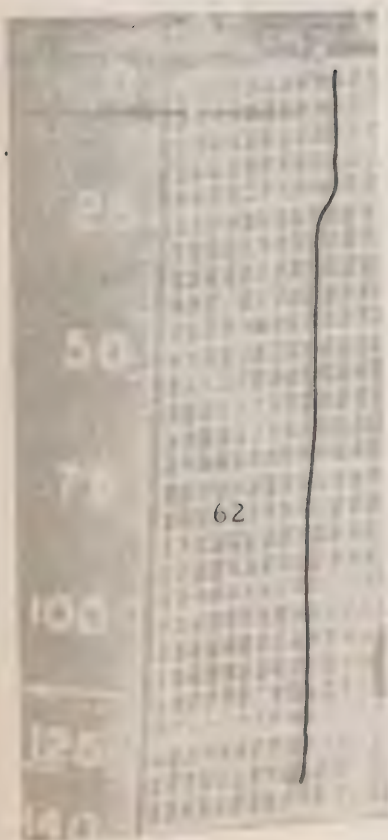
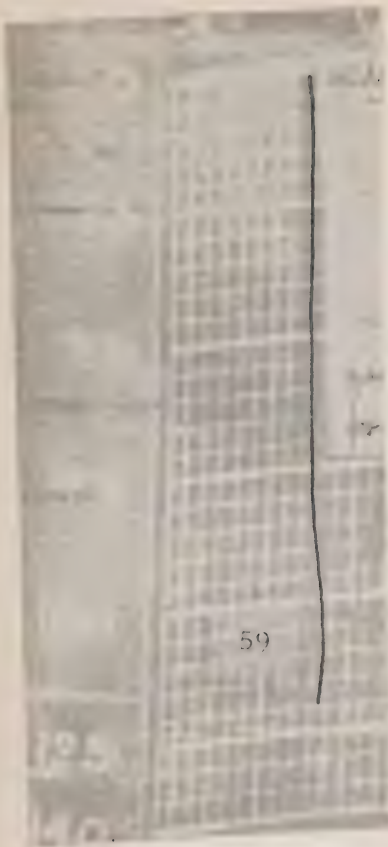


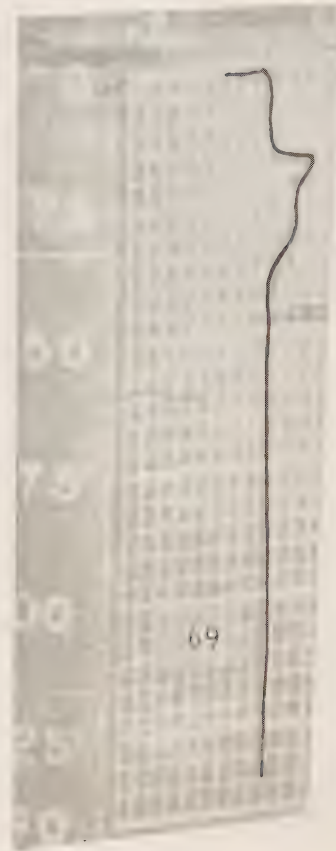
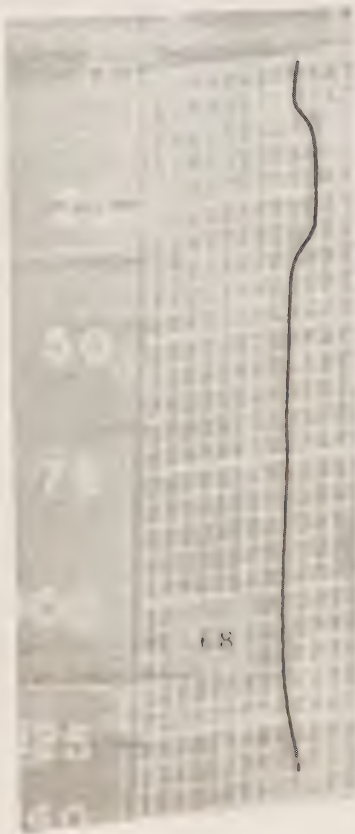
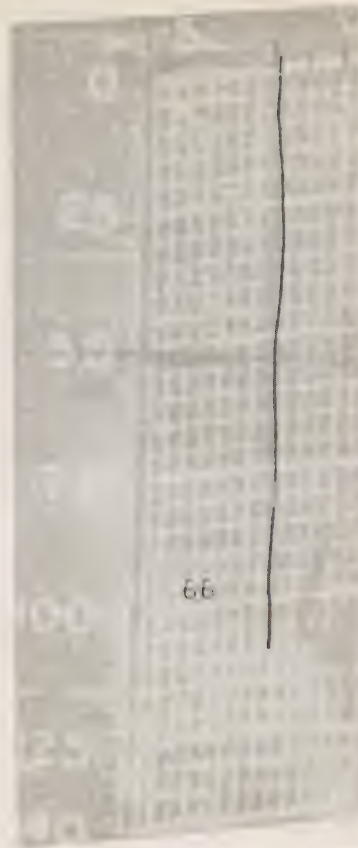


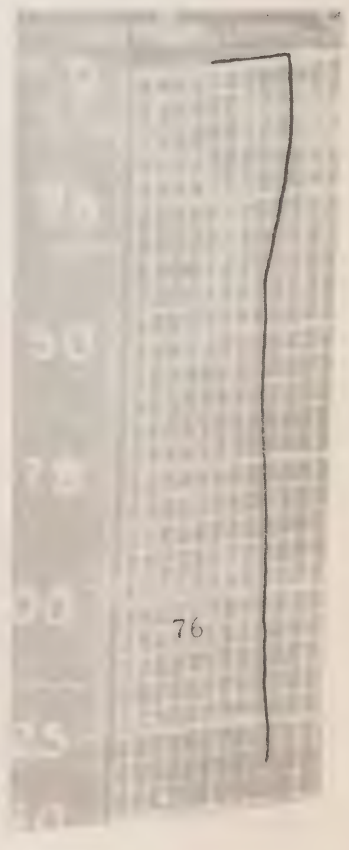
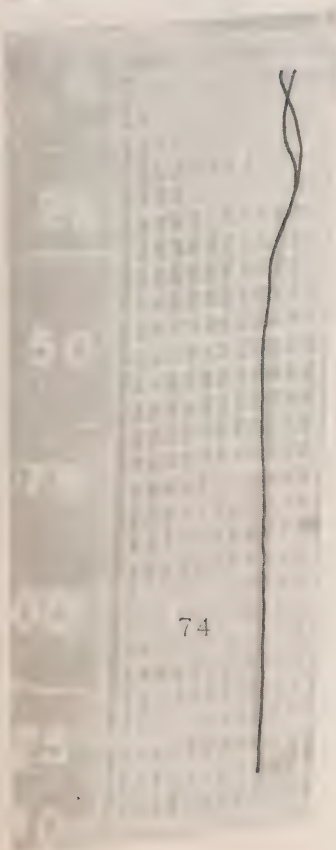
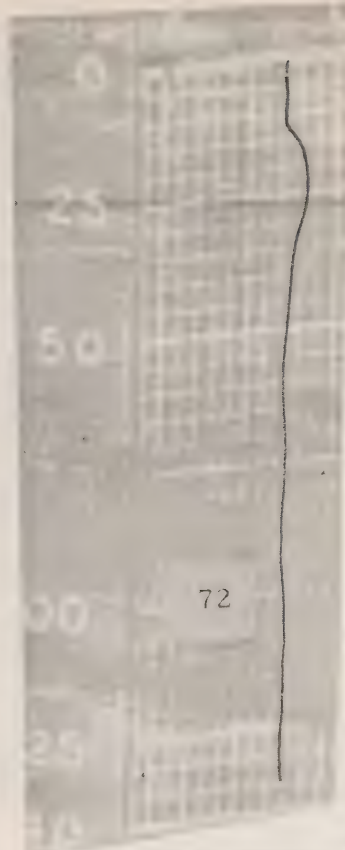
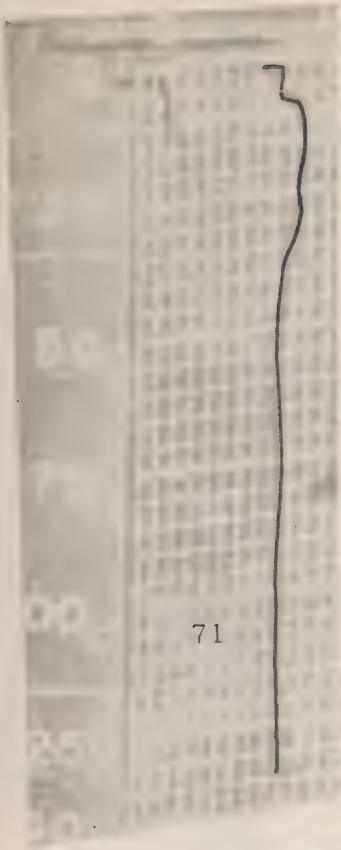


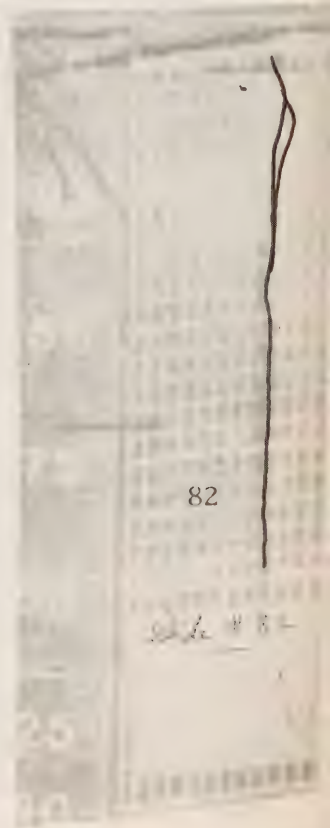
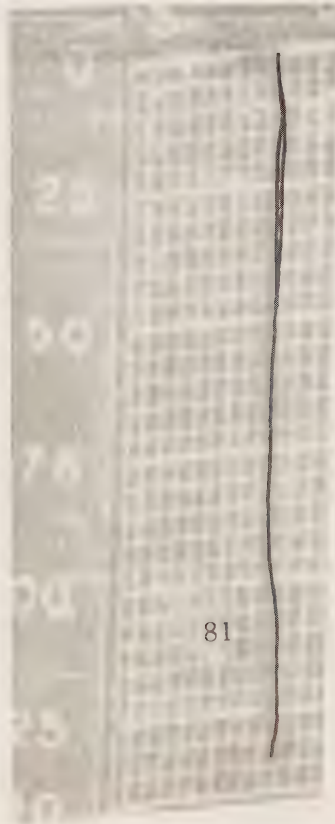
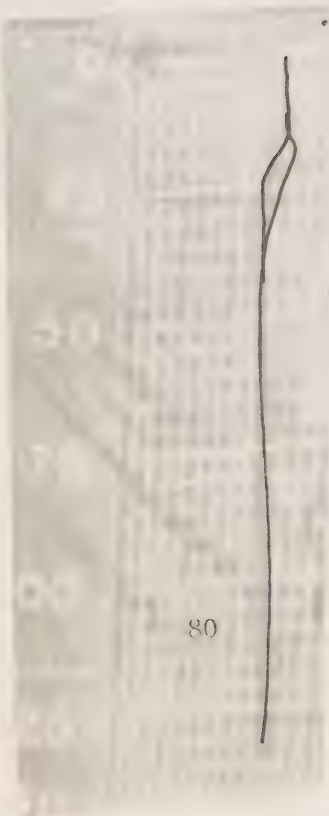


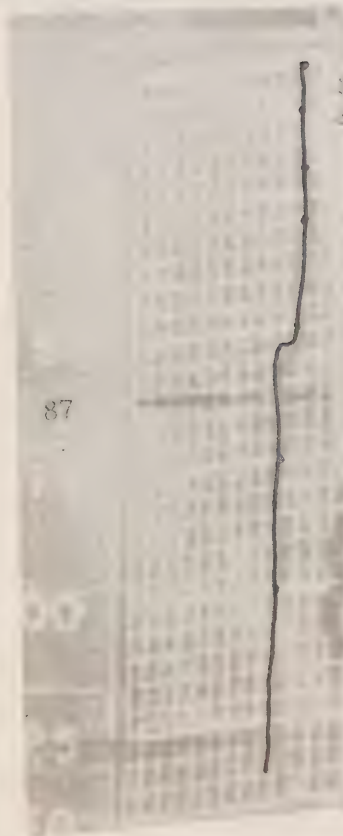
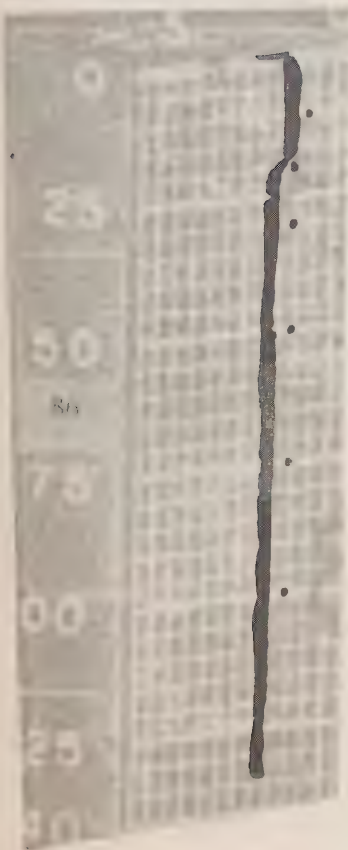
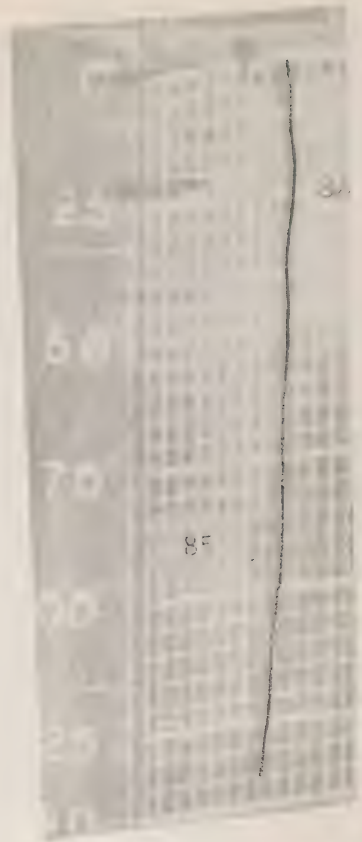
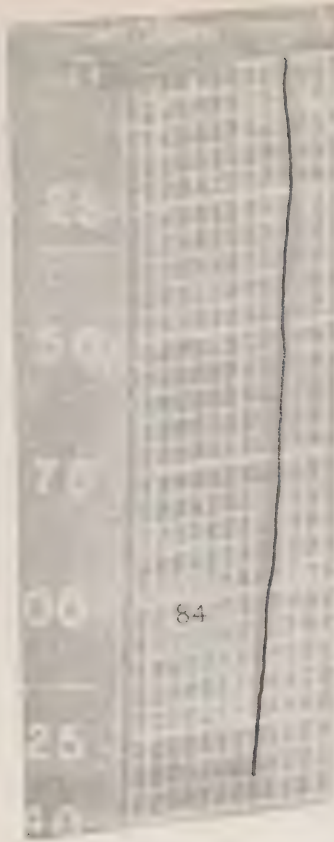
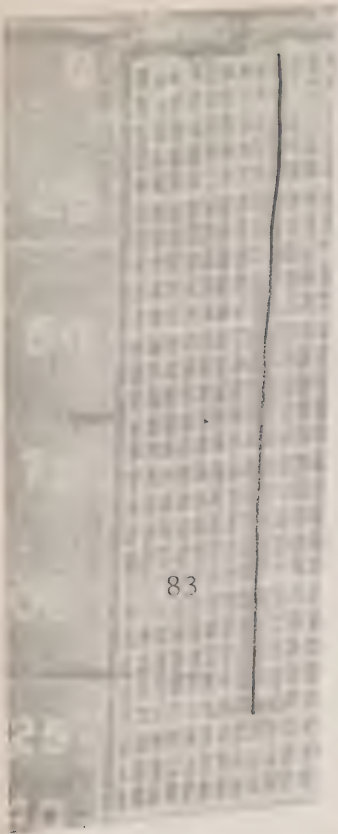


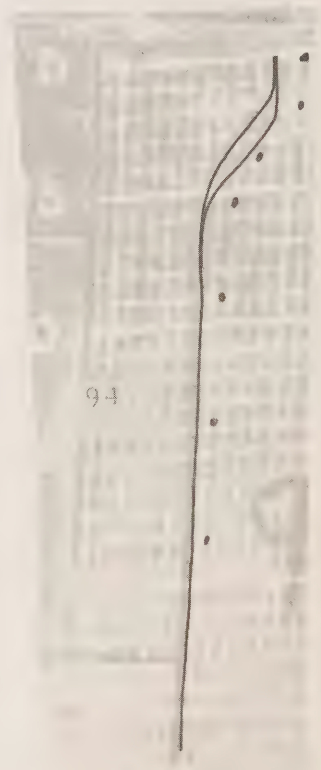
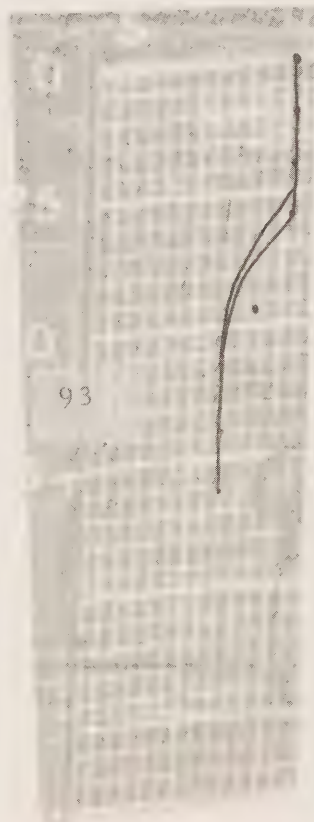
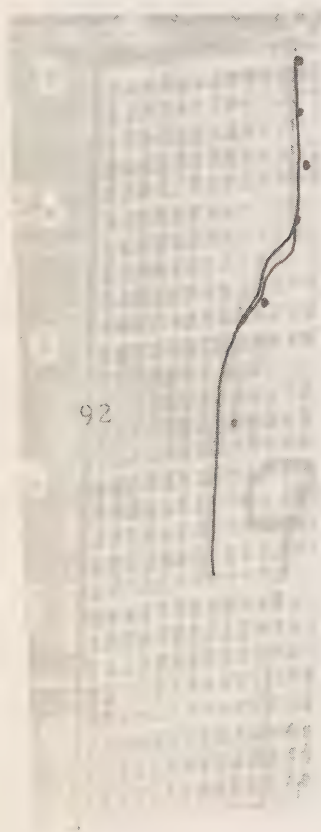
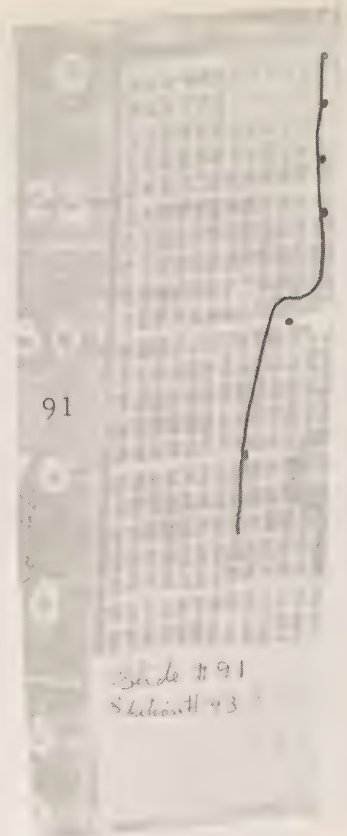
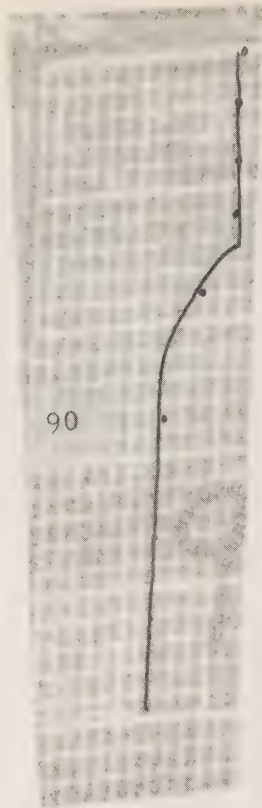
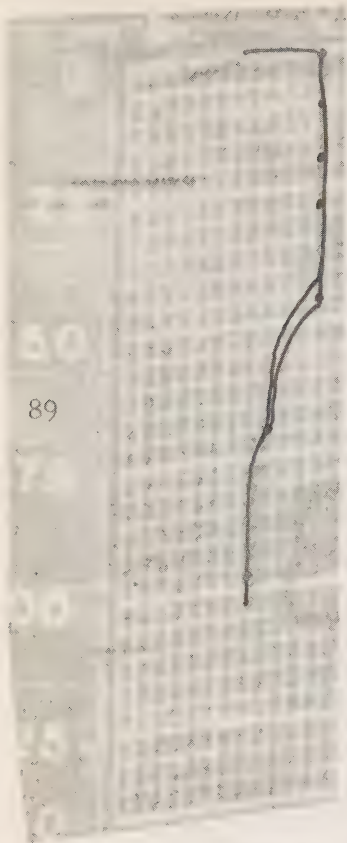


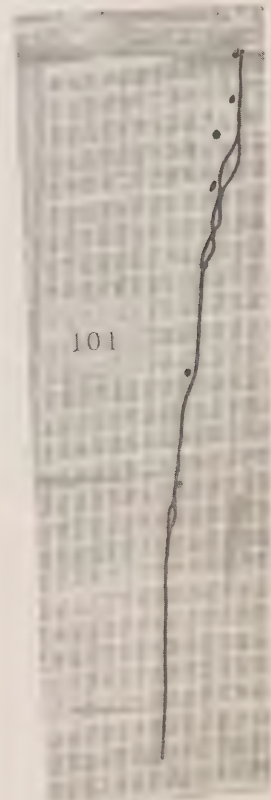
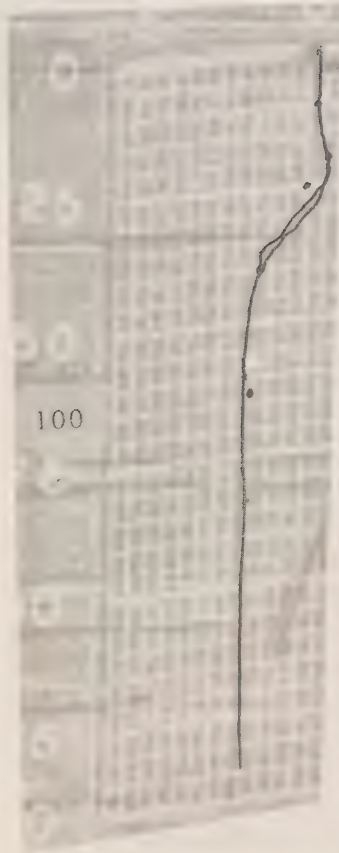
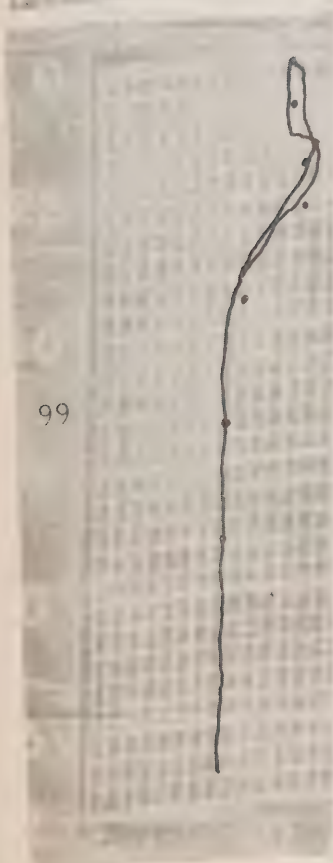
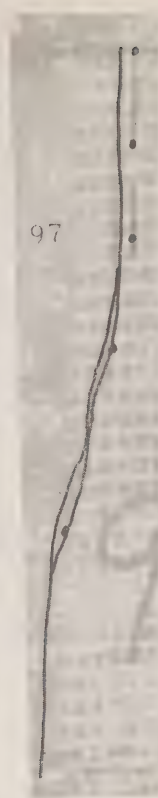
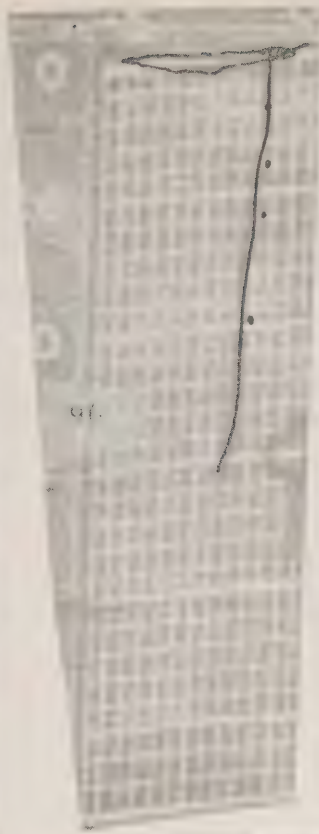
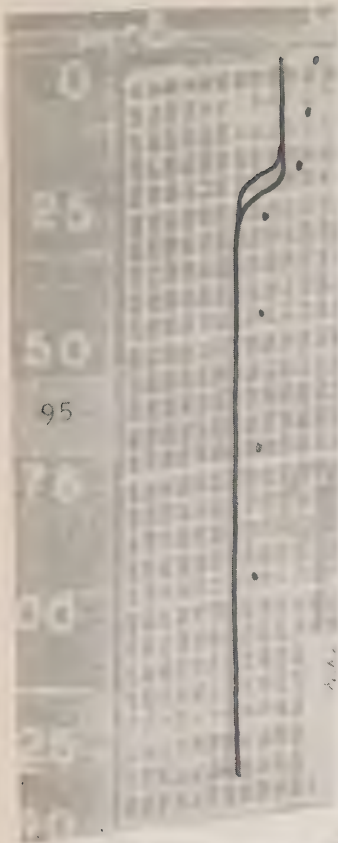


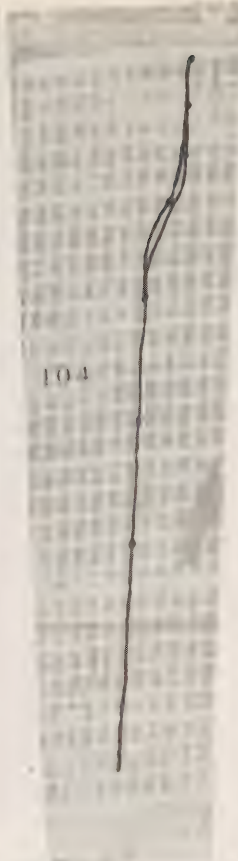
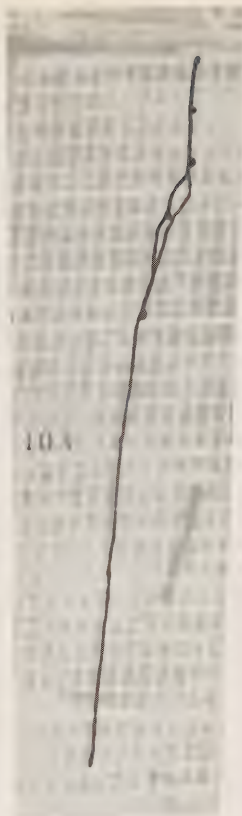
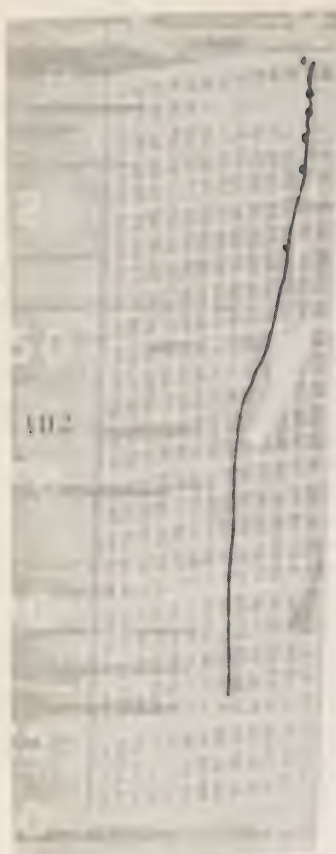


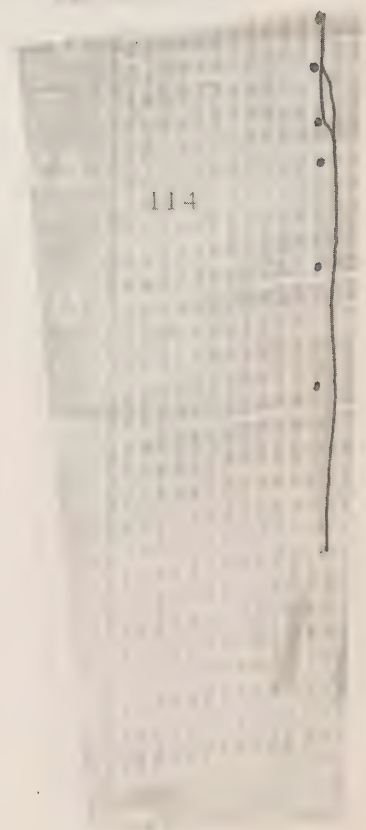
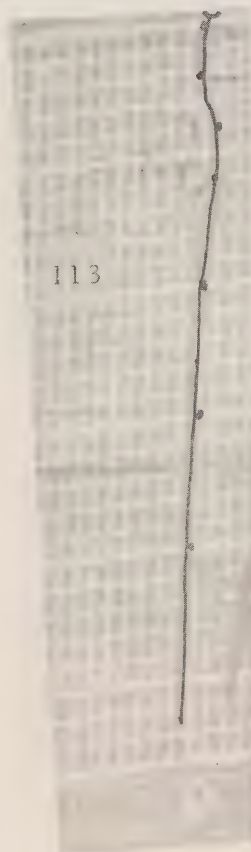
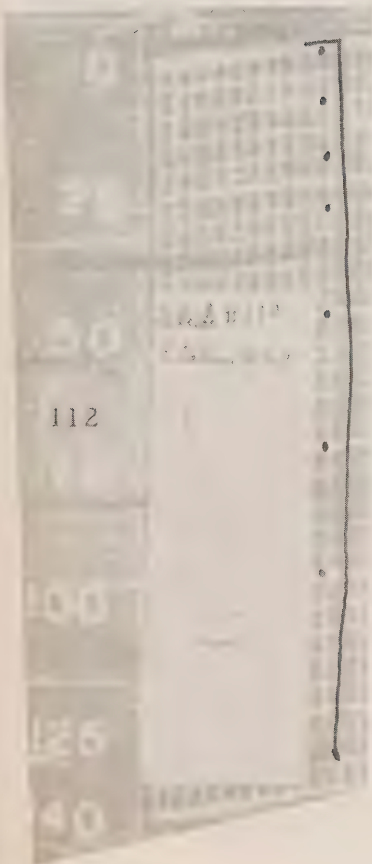
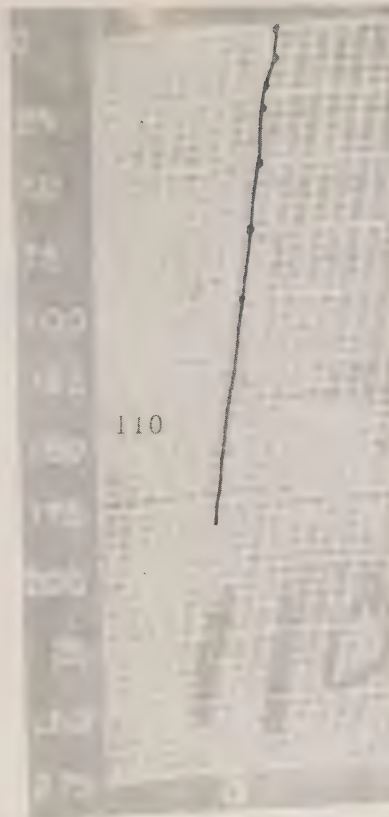
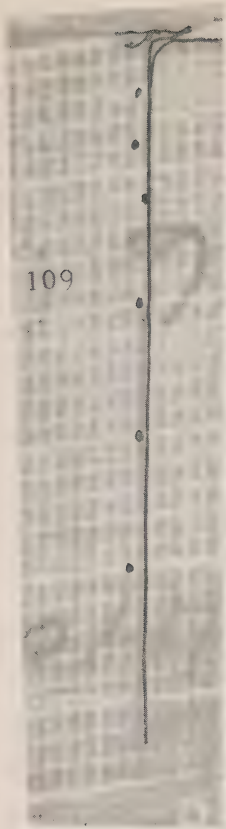


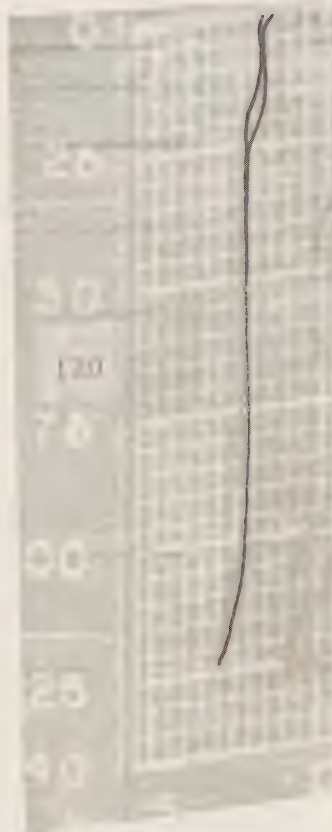
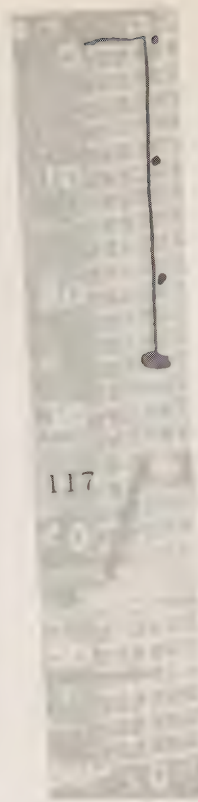
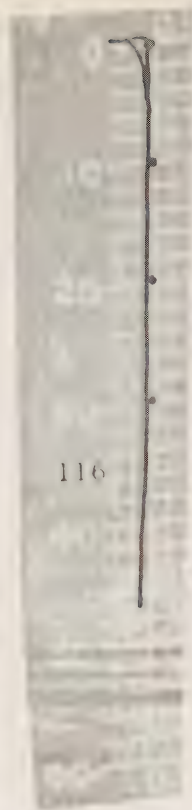


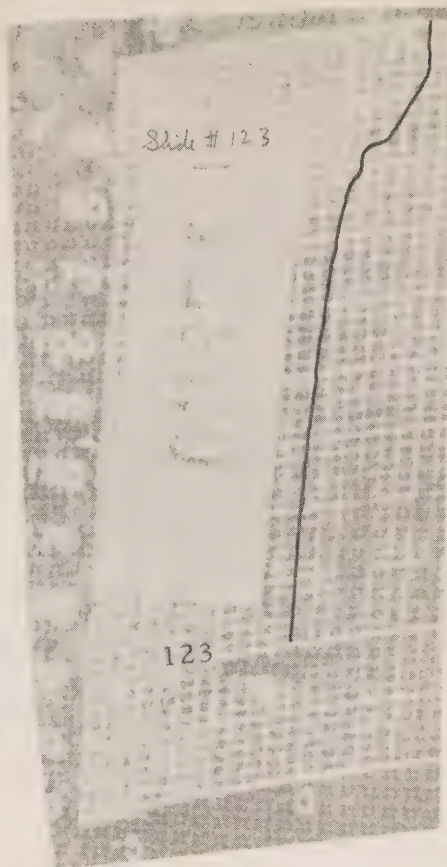
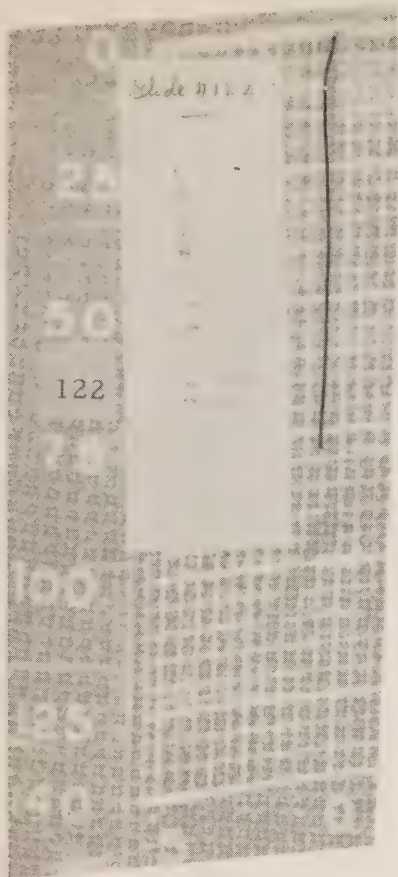












CCGS "LABRADOR"
BATHYTHERMOGRAMS

TABLE 4

CON No	LAT		LONG		DATE			GMT	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min
1	61	07	065	01	11	08	61	12	00
2	66	40	060	33	13	08	61	18	30
3	66	45	059	00	14	08	61	00	00
4	66	55	057	00	14	08	61	05	50
5	67	00	054	55	14	08	61	11	00
6	78	54	075	45	21	08	61	23	30
7	78	54	075	45	22	08	61	16	30
8	78	00	073	44	23	08	61	12	50
9	77	09	075	46	23	08	61	18	40
10	74	28	115	05	28	08	61	20	00
11	74	28	115	05	29	08	61	15	00
12	74	31	115	33	29	08	61	19	55
13	74	27	115	30	31	08	61	06	35
14	74	25	115	26	31	08	61	15	00
15	74	21	115	18	01	09	61	22	10
16	74	22	115	09	02	09	61	15	30
17	74	25	111	54	04	09	61	21	45
18	74	46	101	13	05	09	61	14	40
19	74	35	094	30	07	09	61	02	25
20	74	30	094	30	07	09	61	04	13
21	74	23	094	31	07	09	61	06	35
22	74	23	094	31	07	09	61	06	45
23	74	17	094	30	07	09	61	09	15
24	74	11	094	32	07	09	61	11	40
25	74	41	093	14	07	09	61	16	05
26	74	41	092	52	07	09	61	17	20
27	74	41	092	32	07	09	61	18	35
28	74	41	092	10	07	09	61	19	40
29	74	41	091	55	07	09	61	20	55
30	74	32	091	51	07	09	61	22	20

TABLE 4

CON No	LAT		LONG		DATE			GMT	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min
31	74	07	091	46	08	09	61	01	00
32	74	19	091	55	08	09	61	02	20
33	74	23	091	55	08	09	61	03	50
34	74	24	087	10	09	09	61	06	30
35	74	12	087	12	09	09	61	08	35
36	74	02	087	11	09	09	61	11	15
37	73	50	087	10	09	09	61	12	40
38	72	43	091	55	11	09	61	13	45
39	72	40	091	26	11	09	61	16	00
40	72	37	090	50	11	09	61	18	40
41	72	34	090	25	11	09	61	20	25
42	72	33	089	59	11	09	61	22	00
43	73	06	089	20	12	09	61	02	15
44	73	09	089	43	12	09	61	04	20
45	73	15	090	32	12	09	61	08	00
46	73	17	090	58	12	09	61	09	28
47	73	43	089	16	13	09	61	06	15
48	73	38	088	52	13	09	61	08	00
50	73	50	087	10	13	09	61	13	20
51	74	04	087	10	13	09	61	14	50
52	74	13	087	10	13	09	61	17	54
53	74	24	087	10	13	09	61	19	45
54	74	28	084	00	14	09	61	01	40
55	74	15	084	00	14	09	61	03	00
56	74	15	084	00	14	09	61	05	38
57	74	01	084	00	14	09	61	06	50
58	73	47	084	00	14	09	61	09	15
59	73	48	082	42	14	09	61	13	17
60	74	01	082	42	14	09	61	16	43
61	74	15	082	44	14	09	61	19	20

TABLE 4

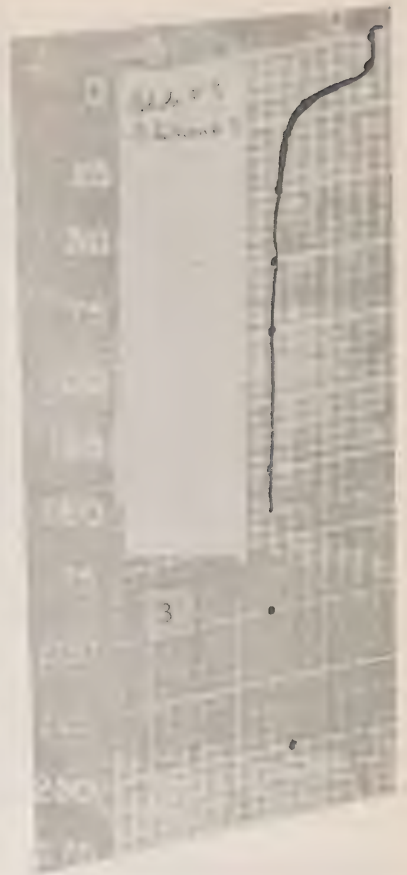
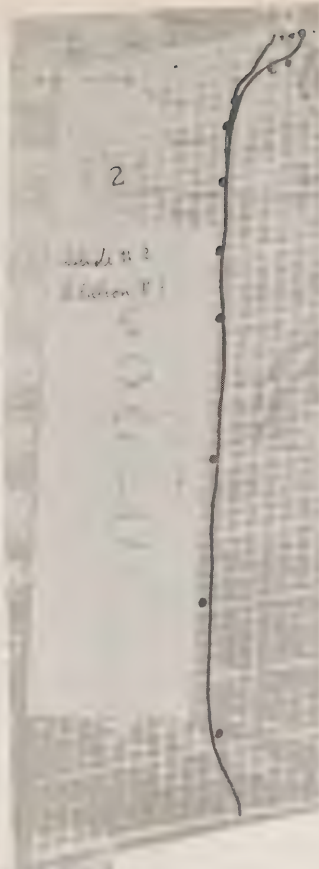
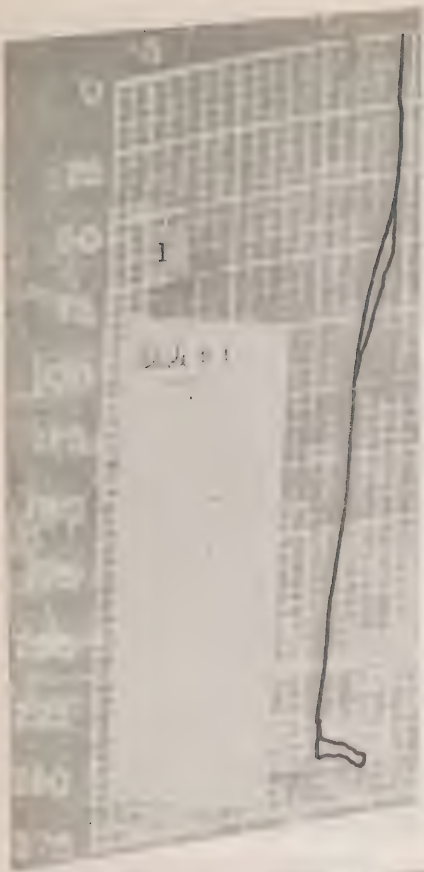
CON No	LAT		LONG		DATE			GMT	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min
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63	74	07	079	30	15	09	61	14	45
64	74	18	079	04	15	09	61	18	00
65	74	30	078	37	15	09	61	20	45
66	74	40	077	28	15	09	61	23	25
67	74	50	076	20	16	09	61	02	15
68	75	30	078	25	16	09	61	08	38
69	75	42	076	21	16	09	61	12	55
70	76	00	074	00	16	09	61	18	05
71	76	18	071	00	17	09	61	00	17
72	76	58	071	52	17	09	61	06	30
73	76	54	074	20	17	09	61	11	52
74	76	57	075	54	17	09	61	16	08
75	76	17	074	40	17	09	61	20	15
76	75	40	074	50	17	09	61	23	27
77	75	00	075	00	18	09	61	04	29
78	73	35	077	07	18	09	61	16	25
79	73	44	076	23	18	09	61	20	10
80	74	02	075	00	19	09	61	00	01
81	74	17	073	44	19	09	61	03	55
82	74	30	072	30	19	09	61	08	00
83	75	44	067	24	19	09	61	22	40
84	75	29	068	17	20	09	61	00	37
85	75	14	069	30	20	09	61	04	00
86	75	00	069	00	20	09	61	07	30
87	75	00	066	25	20	09	61	12	30
88	75	00	064	00	20	09	61	16	30
89	75	00	061	30	20	09	61	20	05
90	74	56	059	15	20	09	61	23	42
91	74	19	058	33	21	09	61	05	10

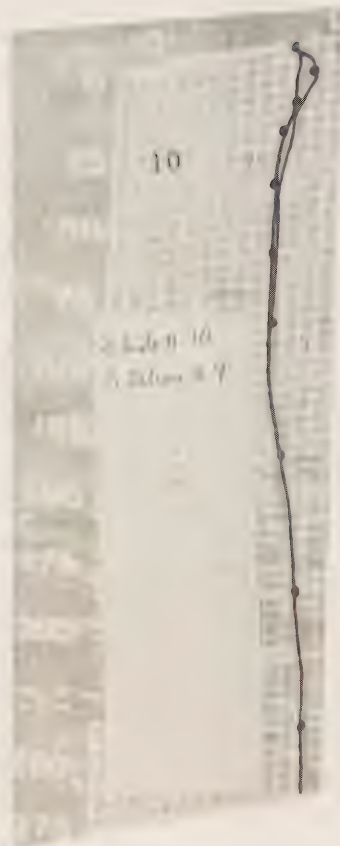
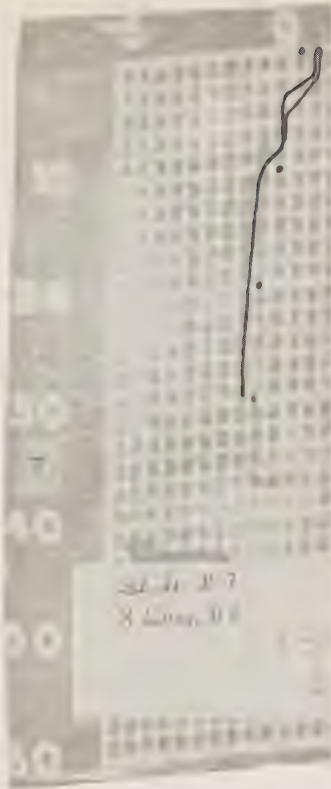
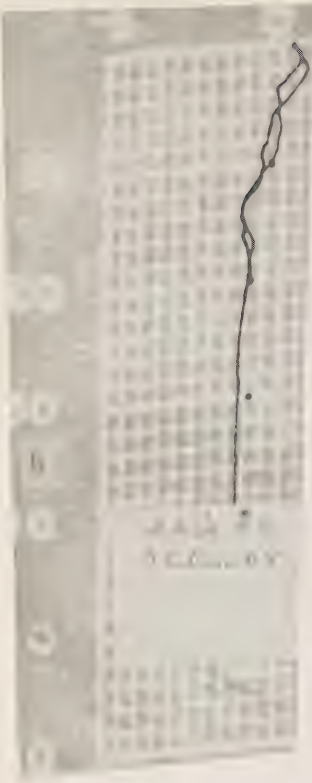
TABLE 4

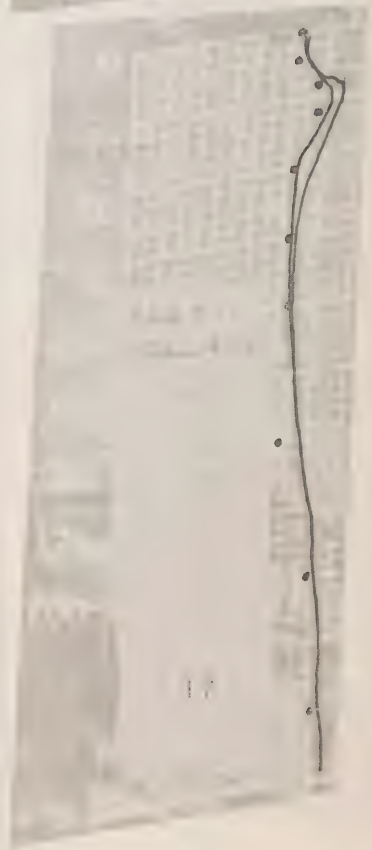
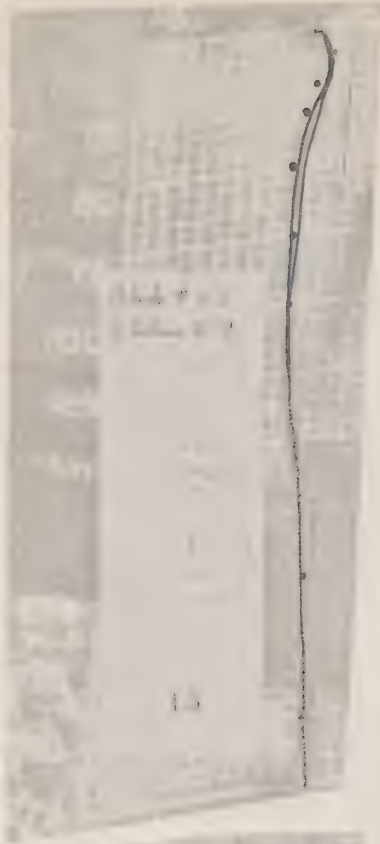
CON No	LAT		LONG		DATE			GM ^T	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min
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93	73	30	063	00	21	09	61	17	05
94	73	10	064	15	21	09	61	20	20
95	72	13	068	00	24	09	61	07	00
96	71	57	069	10	24	09	61	13	15
97	71	40	070	20	24	09	61	17	15
98	71	33	070	56	24	09	61	19	55
99	71	45	069	00	24	09	61	23	43
100	71	30	065	00	25	09	61	09	45
101	70	06	066	58	25	09	61	19	27
102	70	18	066	00	25	09	61	22	25
103	70	26	065	18	26	09	61	02	00
104	70	45	064	15	26	09	61	07	25
105	71	05	063	07	26	09	61	13	39
106	71	22	061	55	26	09	61	19	05
107	71	53	059	47	27	09	61	02	00
108	72	30	057	30	27	09	61	08	30
109	70	45	060	00	27	09	61	19	35
110	70	00	055	58	28	09	61	06	20
111	69	41	058	09	28	09	61	12	08
112	69	20	060	00	28	09	61	18	45
113	69	05	061	48	29	09	61	01	25
114	68	52	063	17	29	09	61	07	10
115	68	37	064	18	29	09	61	10	26
116	68	33	065	21	29	09	61	13	55
117	66	40	060	14	30	09	61	23	07
118	66	45	059	44	01	10	61	01	10
120	66	50	058	00	01	10	61	07	40
121	66	57	057	00	01	10	61	11	25
122	66	57	056	00	01	10	61	13	40

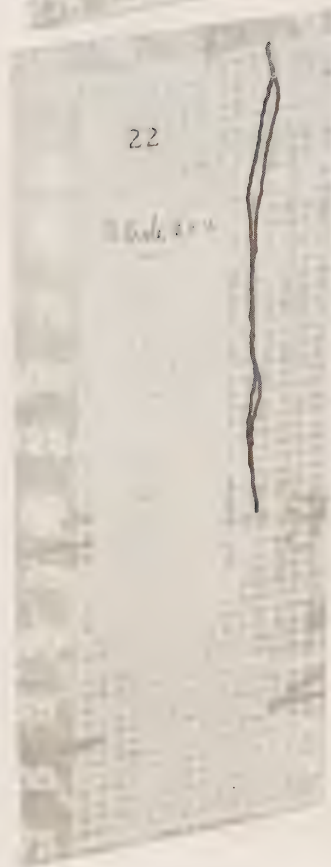
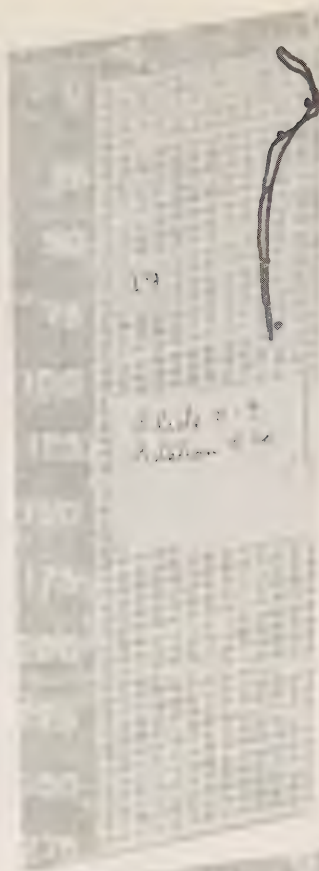
TABLE 4

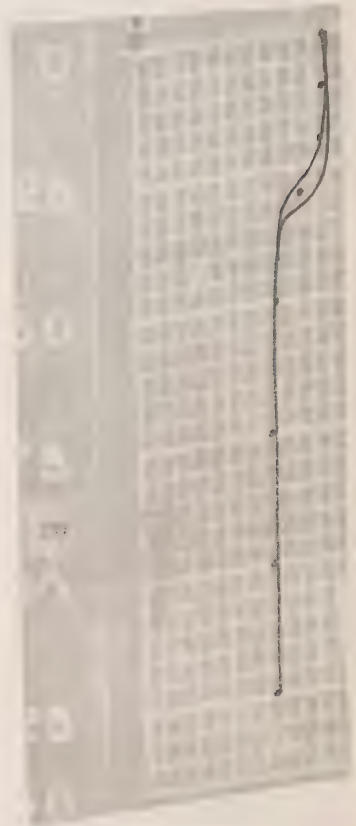
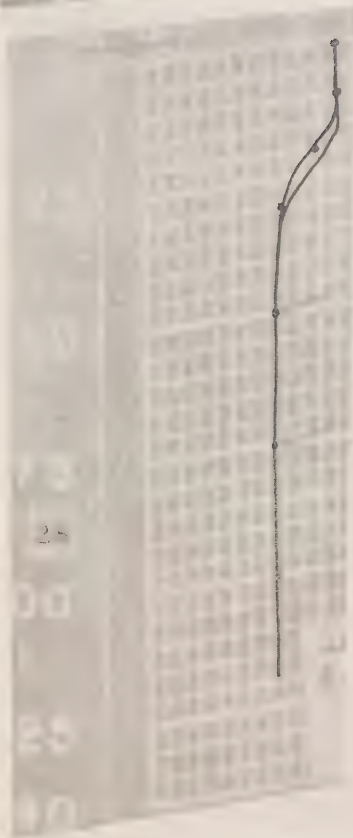
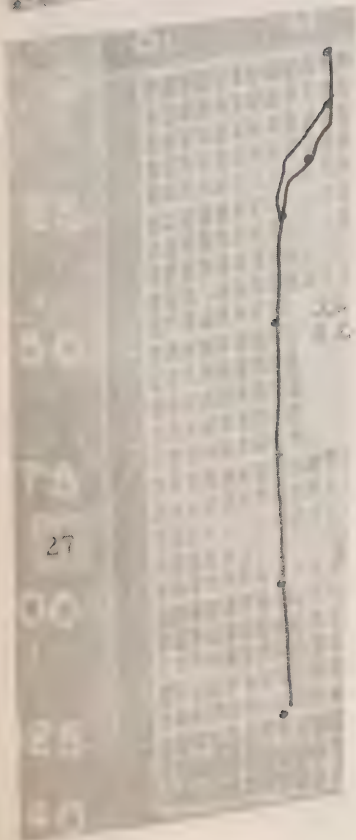
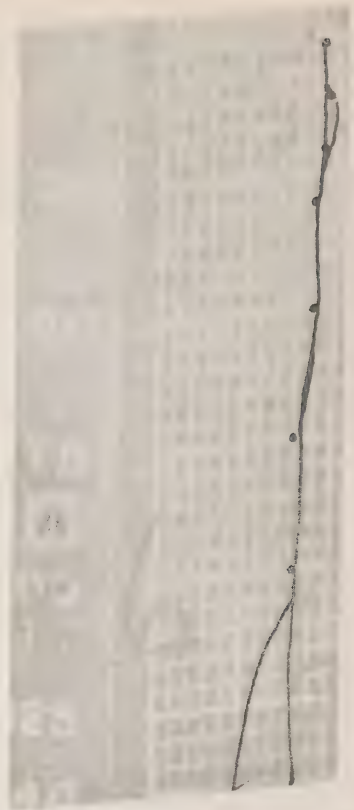
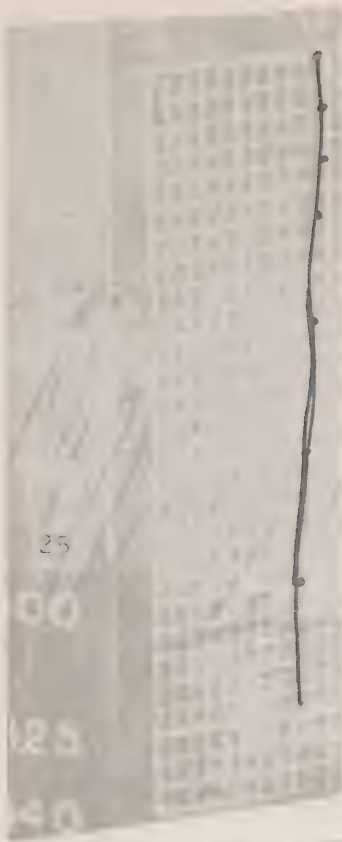
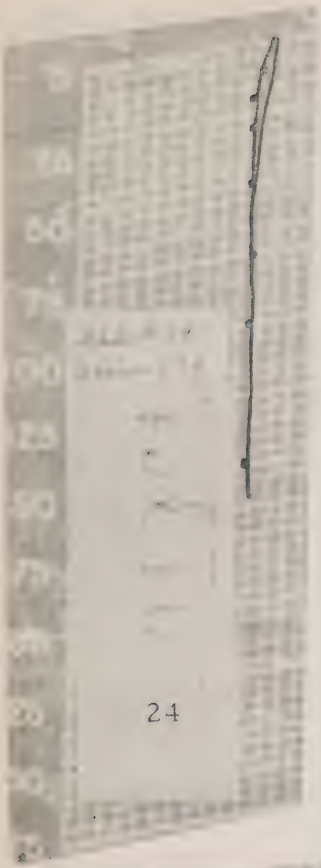
CON No	LAT		LONG		DATE			GMT	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min
123	67	00	055	00	01	10	61	16	30
124	65	00	053	40	02	10	61	06	35
125	65	00	054	26	02	10	61	08	45
126	65	00	055	26	02	10	61	12	15
127	65	00	057	00	02	10	61	16	25
128	65	00	058	30	02	10	61	20	45
129	65	00	059	55	03	10	61	00	23
130	65	00	061	20	03	10	61	04	40
131	62	30	063	00	03	10	61	21	30
132	62	00	063	00	04	10	61	01	05
133	61	30	063	00	04	10	61	05	45
134	61	16	064	51	04	10	61	12	00
135	61	00	063	00	04	10	61	22	00
136	60	37	063	00	05	10	61	00	00
137	60	30	063	00	05	10	61	01	50
138	58	45	061	40	05	10	61	12	00
139	56	57	059	40	06	10	61	00	00
140	55	00	056	53	06	10	61	12	00

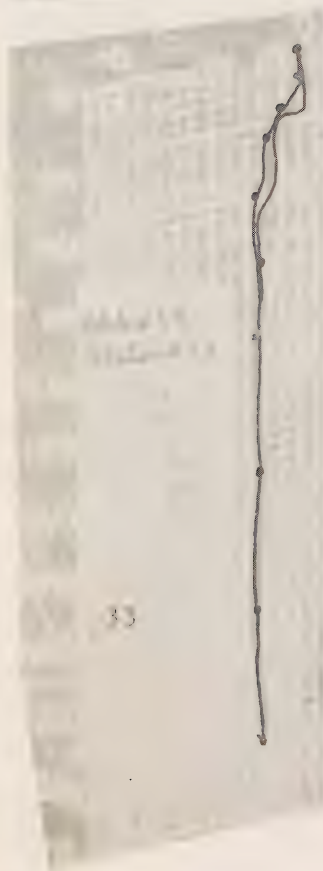
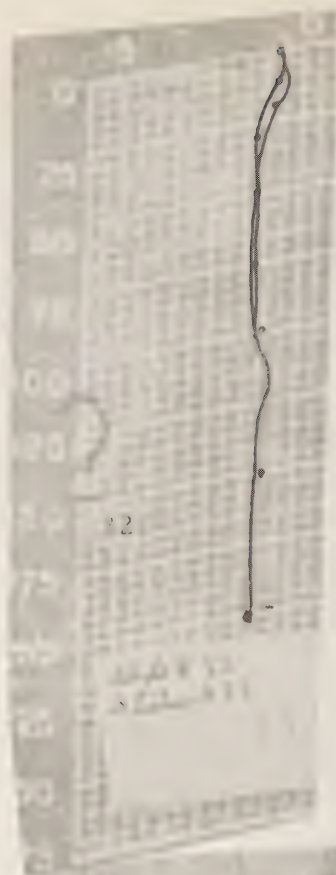
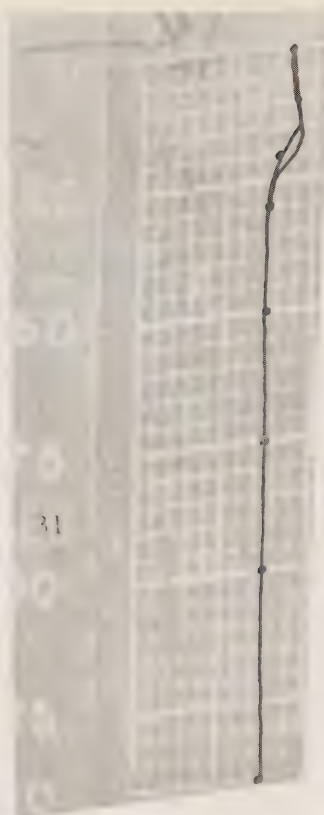


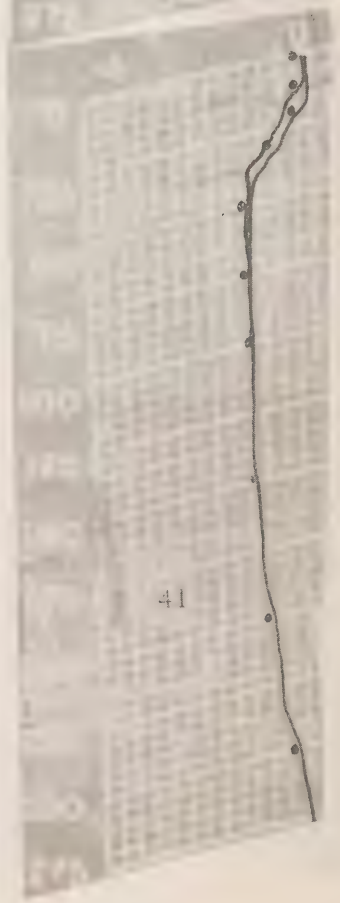
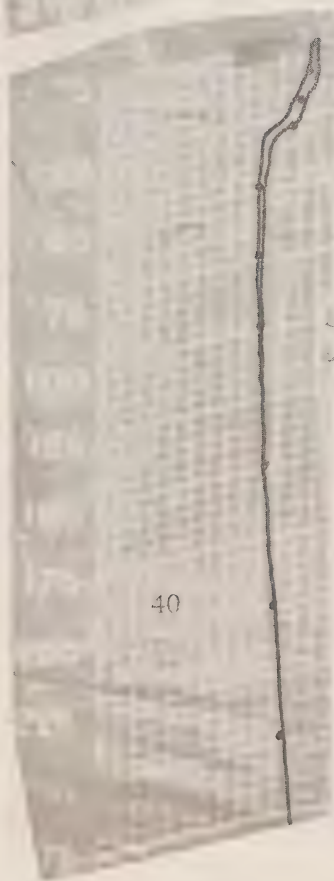
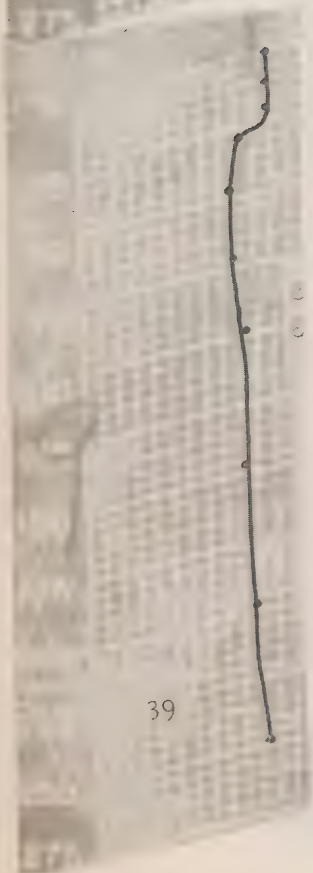
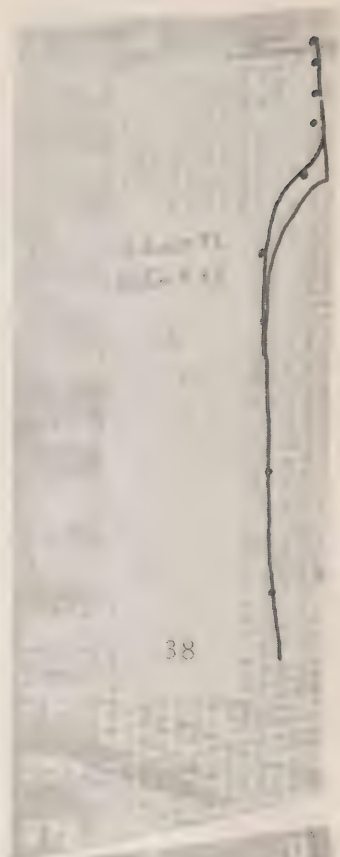
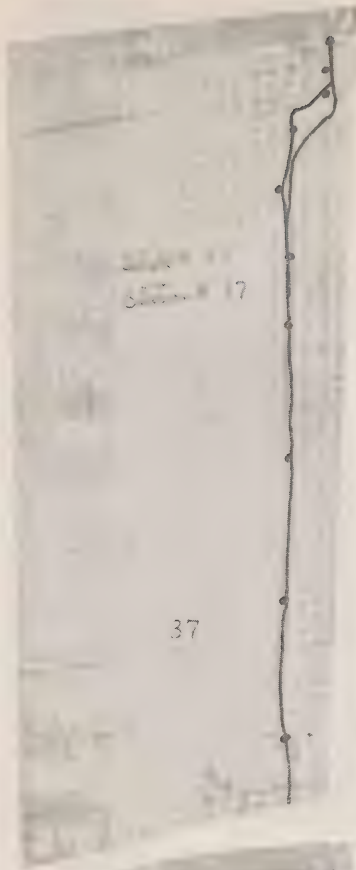


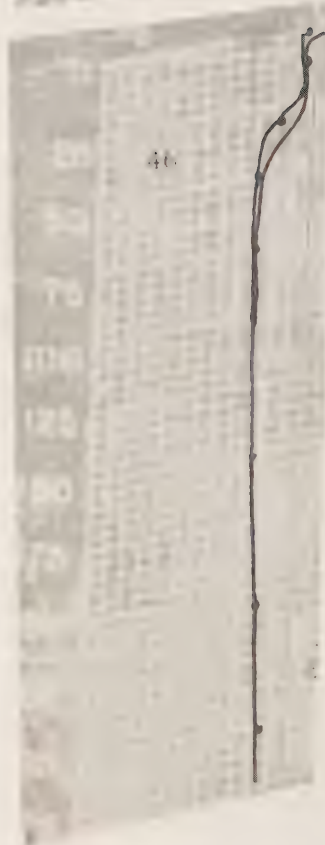
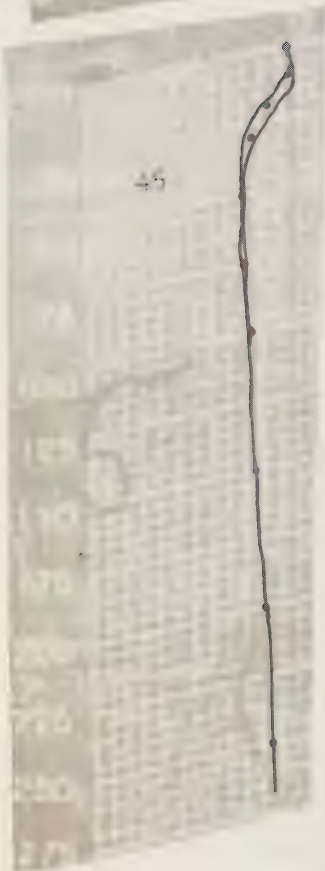
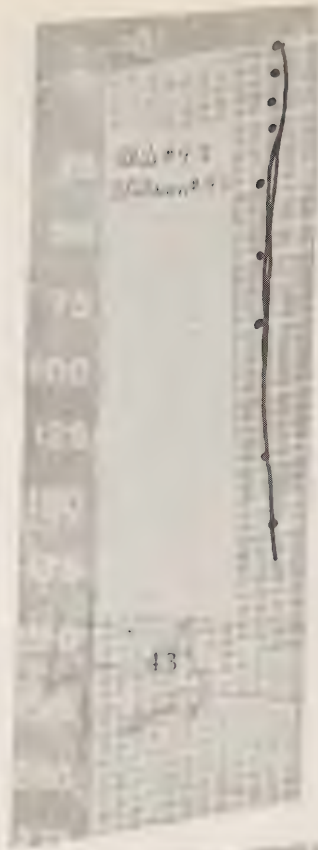


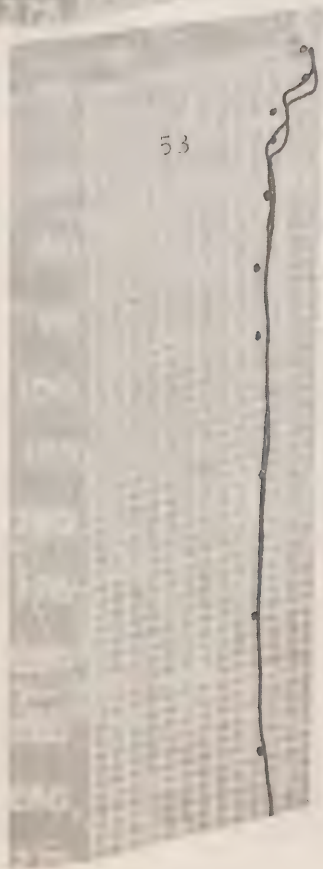
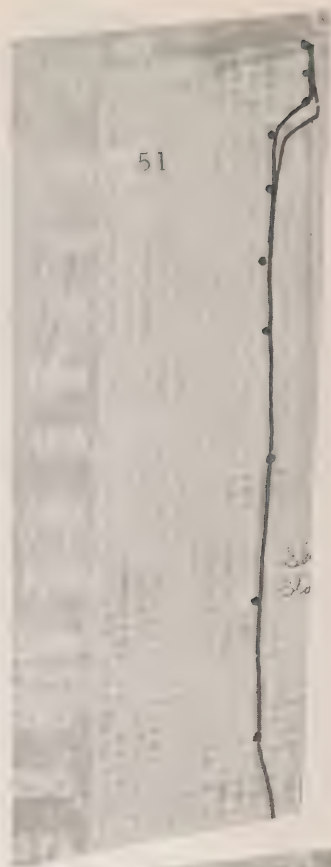
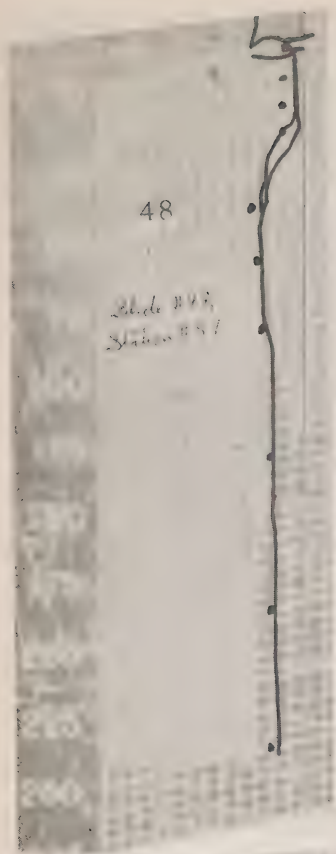


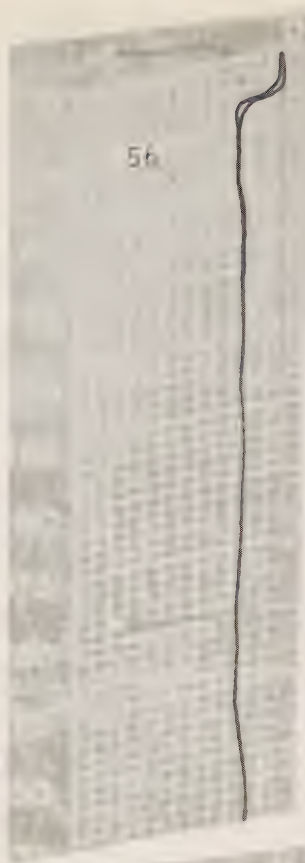


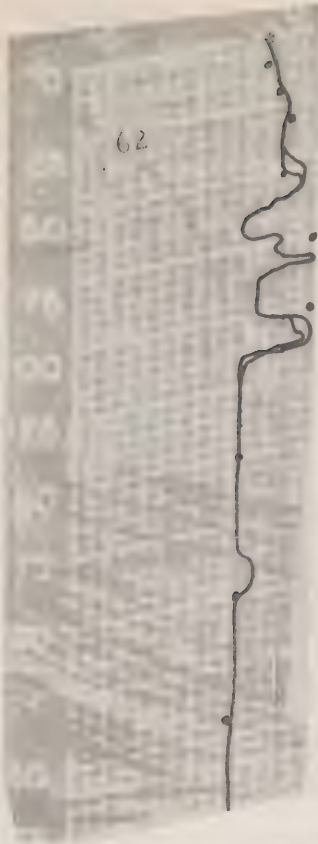


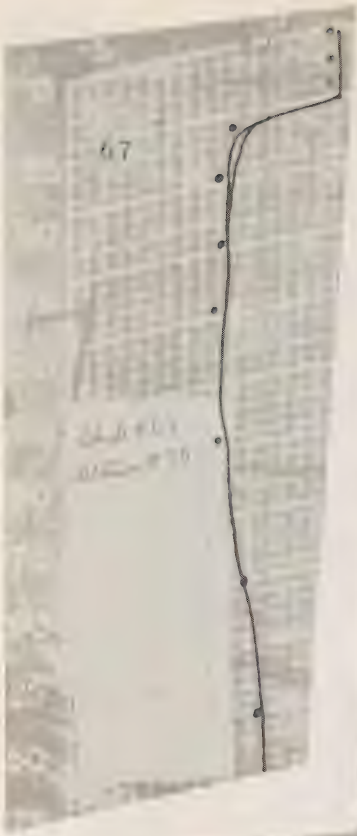


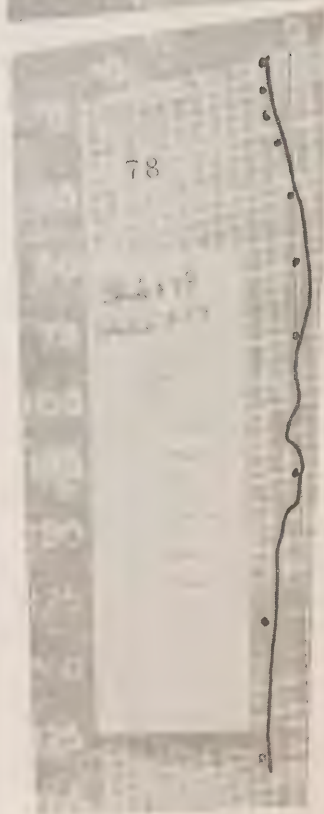
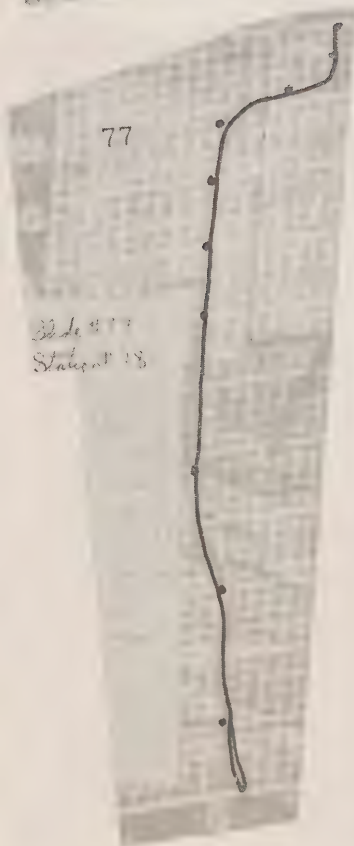
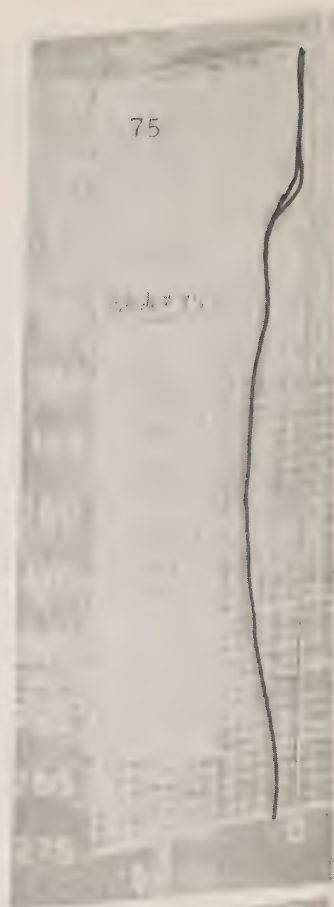
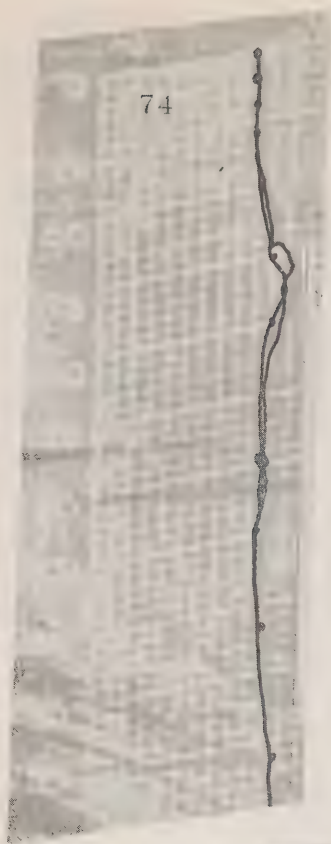
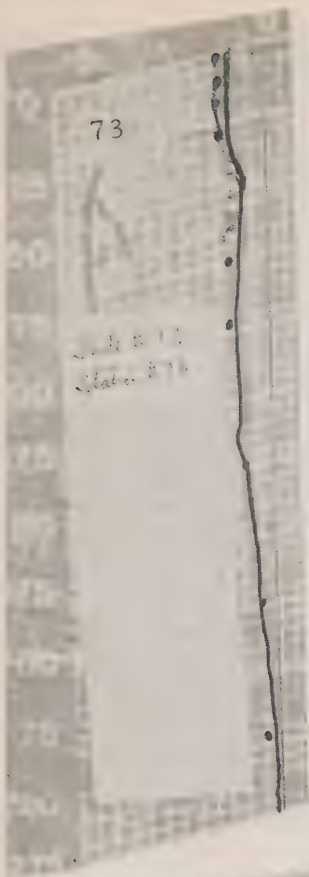


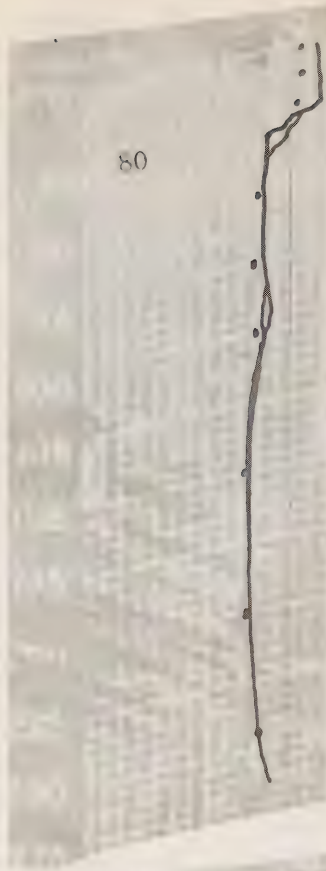


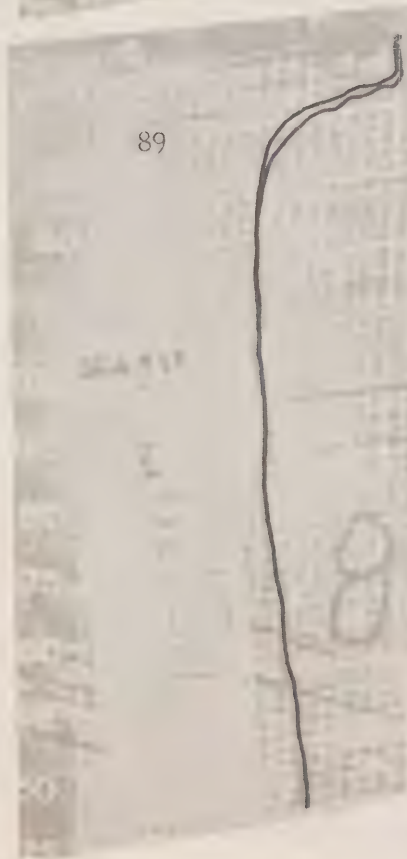
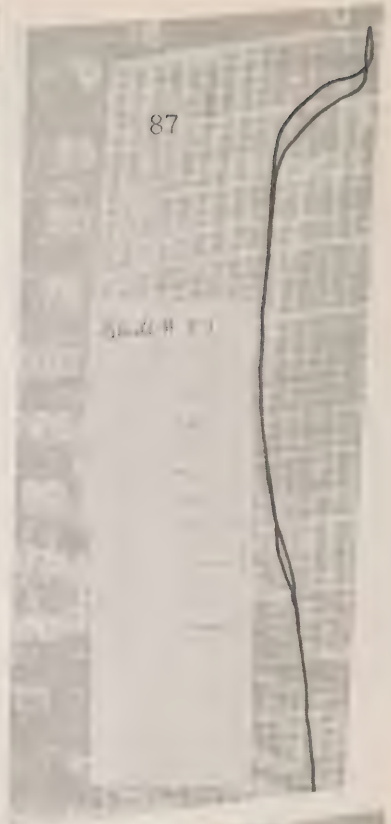
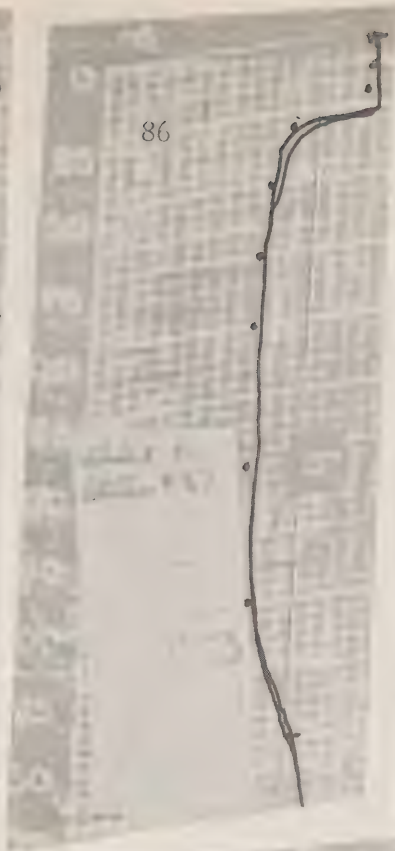


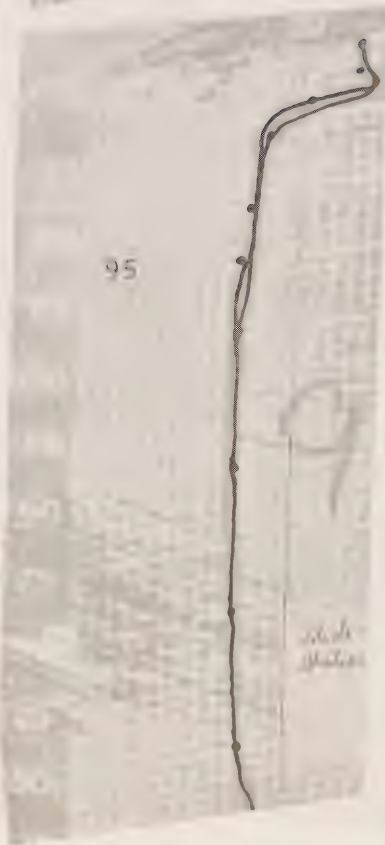


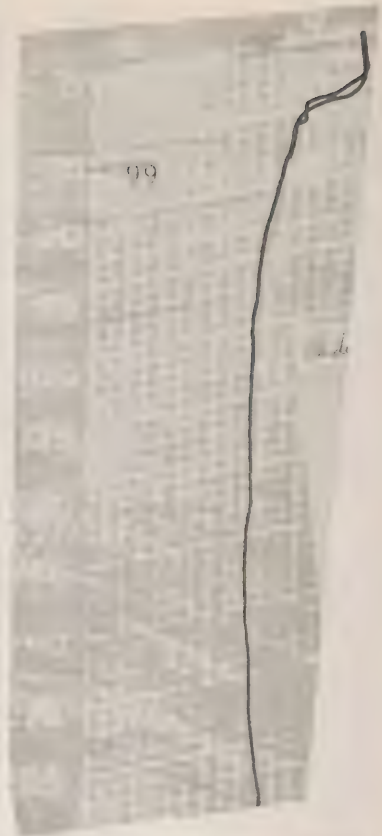












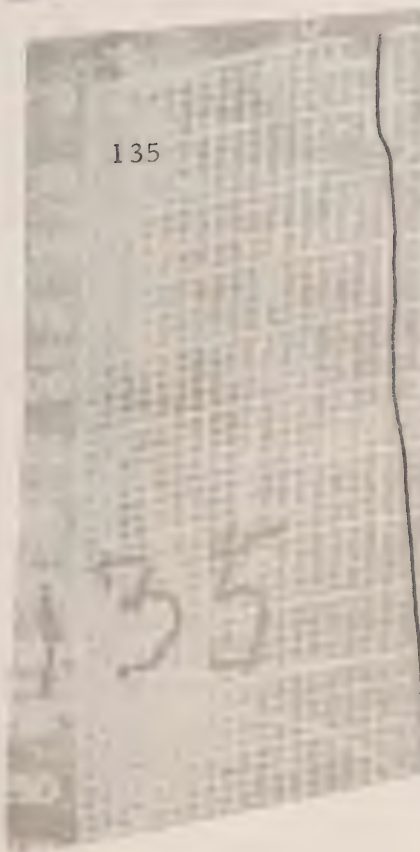
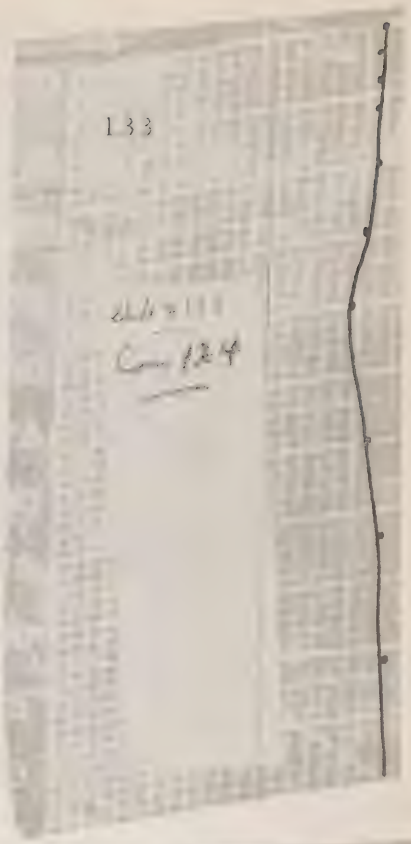
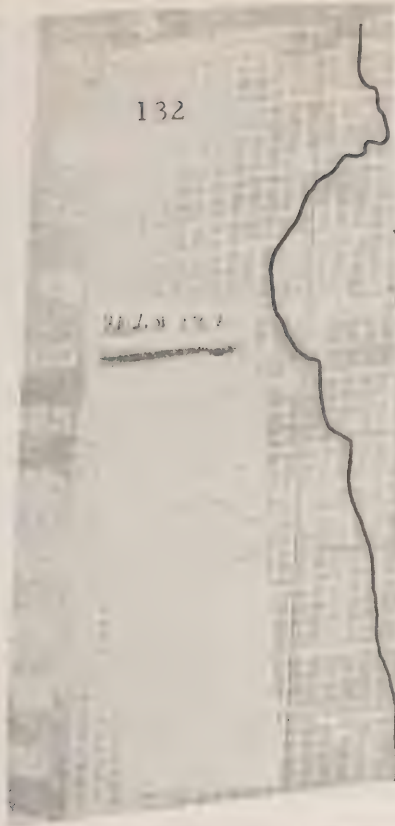
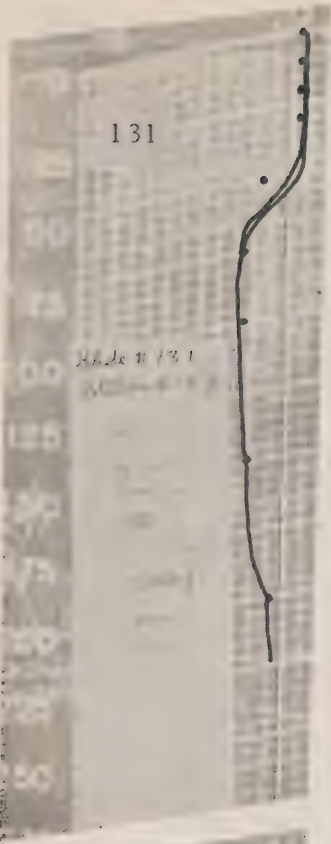


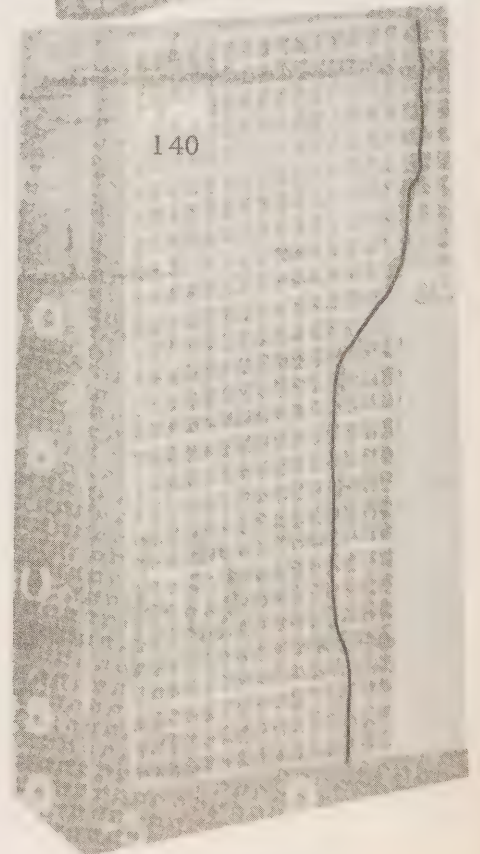
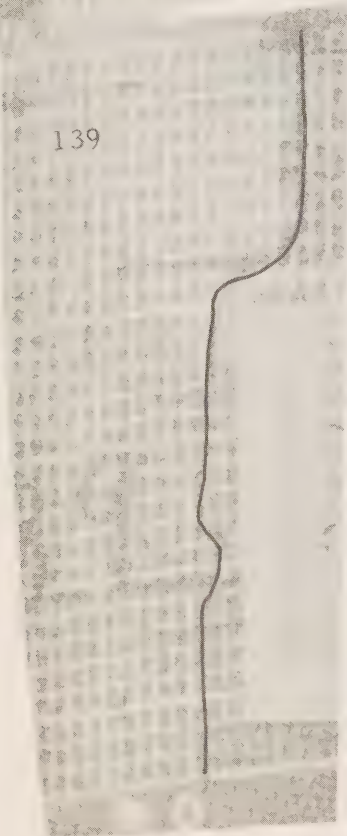
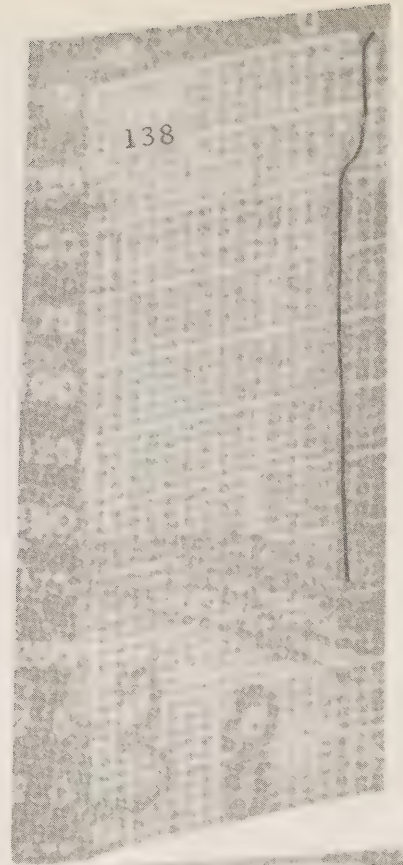
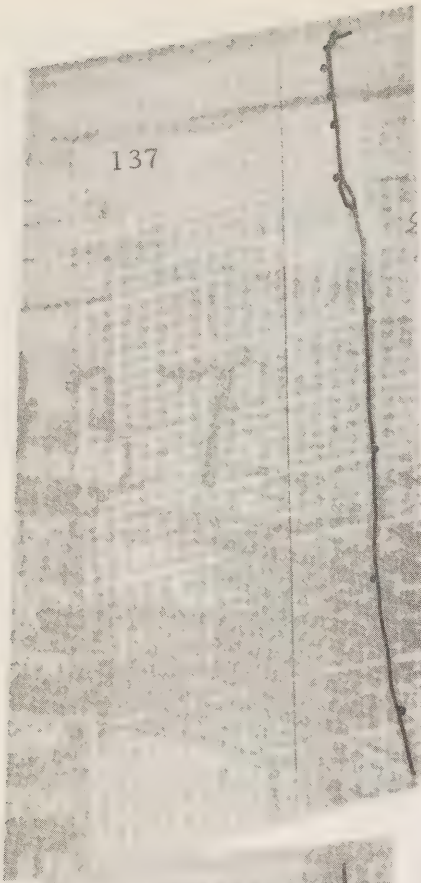












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CANADA



GREAT BEAR LAKE, N. W. T. Two Surveys

July 12, 1964 to August 28, 1965

No. 13

1966 Data Record Series

Canadian Oceanographic Data Centre

Programmed by the
Canadian Committee on Oceanography

1966

ROGER DUHAMEL, F.R.S.C.
QUEEN'S PRINTER AND CONTROLLER OF STATIONERY
Ottawa, 1966
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GREAT BEAR LAKE, N. W. T.

Two Surveys

July 12, 1964 to August 28, 1965

**CODC References: 04-64-002
04-65-002**

No. 13

1966 Data Record Series

Canadian Oceanographic Data Centre
615 Booth St., Ottawa, Canada

Programmed by the Canadian Committee on Oceanography

CANADIAN OCEANOGRAPHIC DATA CENTRE

ERRATA

TO

Publication No. 13, 1966 Data Record Series.
CODC REF. NOS: 04-64-002, 04-65-002
Great Bear Lake, N.W.T. Two Surveys.

Page 74 CONS. NO 038, MARSD SQ should read 228

PART 1

by

M V Radium Gilbert

(CODC Reference: 04-64-002)

FISHERIES RESEARCH BOARD OF CANADA

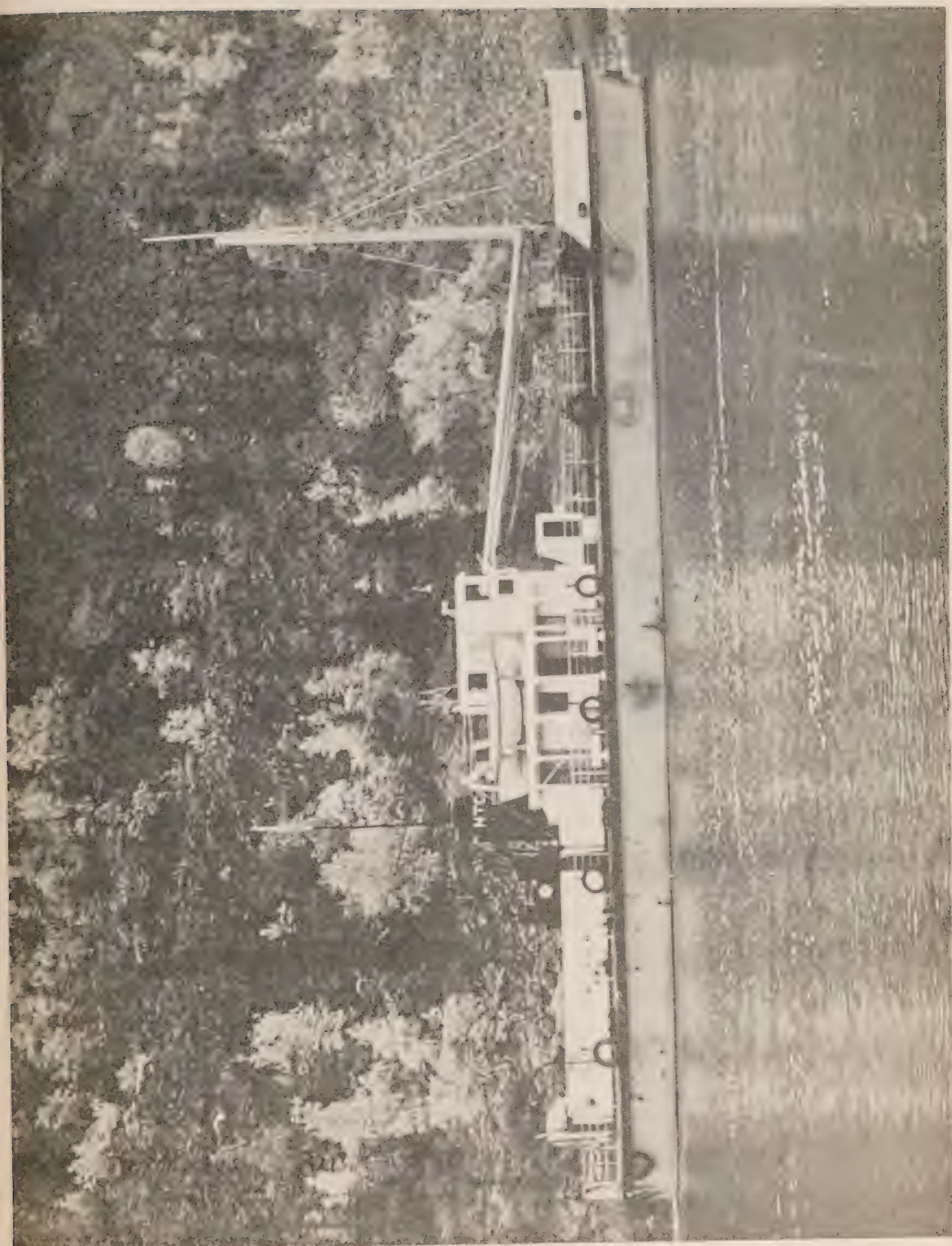
GREAT BEAR LAKE, N.W.T. -- 1964

Ship:	M. V. "Radium Gilbert"
Local Cruise Designation	Gr Bear L., 1964
Period of Survey:	July 12 - September 6, 1964
Observers:	L. Johnson
	C. S. Swisher
	D. R. Curtis

ARCTIC BIOLOGICAL STATION, Ste. Anne de Bellevue, Quebec.

SECTION I

Description of data collection procedures



M.V. RADIUM GILBERT

118°00'

119°00'

120°00'

121°00'

122°00'

123°00'

124°00'

125°00'

66° 00'

GREAT BEAR LAKE

1964

65° 00'

118°00'

35'

PORT
RAJAM

66°00'

INTRODUCTION

The data included in the following pages results from the second year of a three-year program of limnological investigations on Great Bear Lake. The program was started in 1963 and results of this part of the investigation were published in Data Record No. 13 of the 1964 Series, Great Bear Lake, N.W.T. - 1963.

Great Bear Lake has an area of $31,156 \text{ km}^2$ and is the fourth largest lake in North America. It is situated at an elevation of 157 m (515 ft) and has a maximum depth of 452 m so that 295 m are below sea level. The total volume of the lake is 2201 km^3 and the mean depth is 72 m. McVicar Arm forms an almost separate lake communicating with the main lake by a channel about 20 m deep and a quarter of a mile wide. Three general areas may be distinguished: McVicar Arm with a mean depth of 31 m, McTavish with a mean depth of 106 m and the remainder of the lake which is intermediate between the two with a mean depth of 65.5 m. Of the total area 756 km^2 is occupied by islands which leaves a water area of $30,400 \text{ km}^2$. The length of the shore line is 2854 km and the length of island shore is 866 km so that the total length of the shore line is 3720 km or the approximate distance from Montreal to the Rockies.

Great Bear is normally ice-covered from the end of November until the second to third week in July; a maximum ice-thickness of 2 to $2 \frac{1}{2}$ m is reached at the beginning of April.

In the field season of 1964 the first observations were made on the 12th July but navigation on the open lake did not become possible until the 18th July. One hundred forty-eight stations were occupied between 12 July and 6 September.

The program was carried out by the Arctic Biological Station of the Fisheries Research Board of Canada, using the Northern Transportation Company's vessel, the M. V. "Radium Gilbert", a vessel of 270 tons and 120 ft length. The vessel was fitted with a gasoline/hydraulic oceanographic winch, a Kelvin-Hughes M.S. 29 echo sounder for limnological observations and a Sperry Mk. XV gyroscopic compass and Decca Radar Model 212 for navigation.

Numbers on the accompanying chart refer to Station number, (a station may be occupied several times during the season), and not to the consecutive number which is the serial number of the observation.

SECTION 11

Description of the machine-generated data record

INTRODUCTION

This section applies to the machine processing phase of the data reduction and computation.

The oceanographic data previously recorded on CODC data summary forms, a sample of which is shown on the next page, are transferred to punch-cards for subsequent electronic data processing on an IBM 1620 computer, using CODC's OCEANS II program. In addition to computing routine derived quantities, the program carries out unit and format conversions, range checks, plausibility tests, internal editing, and if required, interpolation at standard oceanographic depths. When interpolations are carried out, additional derived values are computed.

After the data have been processed, the data record is prepared using an IBM 1401 computer configuration with the OCEAN REPORT III program, which provides for pre-edited high speed print-out on continuous direct-image masters. These masters subsequently yield the required volume of copies for distribution.

Provision has been made to enter an **"estimate of precision"** for each observed variable selected for interpolation at standard oceanographic depths. The precision depends on the instrument and/or technique used to determine the variable. A standard precision stated as a **standard deviation (σ)** can be determined for each instrument or technique under routine field conditions by making duplicate determinations of the variables for a homogeneous sample of sea water. These standard deviations are given for each cruise under **"GENERAL INFORMATION"** in section III of the data record.

The **measurement error estimate** of a specific observation in this data record, is stated as a multiple of the standard deviation derived as above, and entered in a column immediately to the right of the reported variable. In order to distinguish it from an additional decimal digit, the measurement error estimate is recorded alphabetically, (i.e., $1\sigma = A$, $2\sigma = B$, etc.; in this data record **"A"** is suppressed).

An option is provided with respect to the measurement of the salinity variable. If observed to three decimal digits, the last digit takes the place of the measurement error estimate.

In the past, a number of methods for both manual and machine interpolation have been developed. Studies and comparisons of the several methods have shown that no single method is universally acceptable. The manual methods are the most elaborate and flexible, but often require subjective decisions. In machine interpolation, all the present methods fail to yield acceptable results under some circumstances. Hence, it is considered necessary to qualify interpolated values by stating an **"interpolation error estimate"** derived from the particular interpolation formula used. There are two purposes in stating the error estimates; **first**, to give an indication of the quality of the interpolated data; **second**, to allow the oceanographer to redesign his observational procedures in order to reduce interpolation errors in future observations.

The interpolation scheme chosen for the OCEANS II program consists of a combination of two 3-point interpolations using the Lagrangian interpolation polynomial, as recommended by Rattray (1962). A parabola is fitted through three values of a given variable (T , S , O_2) considered as a function of depth. The two interpolation parabolas require a total of four points (observed depths). The middle points are common to both parabolas. The average of the two values obtained from the parabolas at standard depth is taken as the interpolated value, and a function of their difference as an estimate of the interpolation error.

This function combined with the **"measurement error estimate"** comprises the **"combined measurement and interpolation error estimate"**. It is expressed as a multiple of the standard deviation of measurement (σ) under normal routine field conditions by:

CANADIAN OCEANOGRAPHIC DATA CENTRE

MASTER									
1 IDENT. CODE		2 LATITUDE (N=+)		3 LONGITUDE (W=+)		4 DATE		5 YEAR MONTH DAY	
COUNTRY INST.		DEG. MIN. 1/10		DEG. MIN. 1/10		TIME		HOURS 1/10	
1 8									
10 WATER		11 WAVES I		12 WAVES II		13 WIND		14 SAMPLER	
COLOR TRAN.		DW BY PPM		DW D BY M		DIR. 1/10		AIR TEMP. 1/10	
20		21		22		23		24	
25		26		27		28		29	
30		31		32		33		34	
35		36		37		38		39	
40		41		42		43		44	
45		46		47		48		49	
50		51		52		53		54	
55		56		57		58		59	
60		61		62		63		64	
65		66		67		68		69	
70		71		72		73		74	
75		76		77		78		79	
80		81		82		83		84	
85		86		87		88		89	
90		91		92		93		94	
95		96		97		98		99	
100		101		102		103		104	

OBSERVED CARD

25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 53 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 80

6 TIME		7 DEPTH OF SAMPLE		8 TEMPERATURE		9 SALINITY		10 DRYER		11 W. & C. CODE		12 TOTAL		13 NO. 2 - N		14 NO. 3 - N		15 SPO. 3 - S		16 P.M.	
HOURS	1/10																				
1																					
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					
16																					
17																					
18																					
19																					
20																					

$$\frac{\sigma_i}{\sigma} = \left\{ \frac{(\Delta V_i)^2}{\sigma^2} + \sum_{n=j-2}^{j+1} (\gamma_n)^2 \left(\frac{\sigma_n}{\sigma} \right)^2 \right\}^{1/2}, \text{ where}$$

σ = Standard deviation of the combined error estimates at standard oceanographic depth,

ΔV_i = the interpolation error estimate of variable "V" at standard oceanographic depth = $^{1/3} (V_{i_1} - V_{i_2})$

γ = Interpolation polynomial coefficient.

Z_j = Observed depth.

Z_i = Standard oceanographic depth, such that: $Z_{j-2} < Z_{j-1} < Z_i < Z_j < Z_{j+1}$

The integral part of the fraction $\frac{\sigma_i}{\sigma}$, if ≥ 2 , is reported in this Data Record following the interpolated variable. It represents the combined measurement and interpolation error estimate. In order to distinguish it from an additional decimal digit, it is recorded alphabetically (e.g.: 2 as "B", 3 as "C", etc.).

With respect to the interpolated value of the salinity variable if reported to three decimal digits, the interpolation error estimate is given only when $\frac{\sigma_i}{\sigma} \geq 2$ (the salinity is then recorded to two decimal places). If less than 2, the mean obtained from the two interpolation parabolas is reported to three decimal places.

EXPLANATION OF DATA RECORD HEADINGS

MASTER HEADINGS

(1) C-REF-NO	(6) YR	(11) DEPTH	(16) WAVES 1	(21) AIR T	(26) VIS
(2) CONS. NO	(7) MONTH	(12) MXSAMPD	(17) WAVES 2	(22) WET B	(27) STN
(3) LAT	(8) DAY	(13) NO. DPTH	(18) WND-DIR	(23) ww-CODE	
(4) LON	(9) HR	(14) W-COLOR	(19) WND-FCE	(24) CLD-TPE	
(5) MARSD SQ	(10) C/I	(15) W-TRNSP	(20) BARO	(25) CLD-AMT	(28) HW

- (1) CRUISE REFERENCE NUMBER: Assigned by the Institute. Commences with 001 at the beginning of each year (effective Jan. 1, 1963). Prior to that date the CRN was a number designated by CODC.
- (2) CONSECUTIVE NUMBER: Indicates the chronological order in which the stations were occupied.
- (3) LATITUDE: Indicate the position of the platform at the time of observation.
- (4) LONGITUDE:
- (5) MARSDEN SQUARE: Designates the geographic area code of the observation (see Marsden square chart).
- (6) YEAR:
- (7) MONTH:
- (8) DAY:
- (9) HOUR: The time (Greenwich Mean Time) at which the surface environmental data were recorded. It is reported to tenths of hours (Table 1).
If an "X" precedes the value for HOUR, (prior to Jan. 1, 1963) it indicates that the reported time is doubtful.
- (10) COUNTRY/INSTITUTE: The International Geophysical Year (IGY) Country Code/Institute Code - see Table 11.
- (11) DEPTH: The sounding reported in metres. If corrected, this is stated in the "GENERAL INFORMATION" chapter of section III. Charted depths are preceded by the letter "C".
- (12) MAXIMUM SAMPLING DEPTH: A code to indicate the deepest sampling depth (used for high speed sorting).
- 00 m - 50 m = 00
51 m - 150 m = 01
151 m - 250 m = 02
etc.

- (13) NUMBER OF DEPTHS: The number of levels observed (this is entered to initiate a computer safety check, guarding against the loss of punch-cards).
- (14) WATER COLOUR: A code based on the percentage of yellow (see table 2 and Note under FIELD "15" below).
- (15) WATER TRANSPARENCY: The depth in metres at which a Secchi disc (white disc, 30 cm. in diameter) just disappears from view, or the optical density expressed in percentage;
- NOTE: The "GENERAL INFORMATION" chapter in section III of the data record will state which method was used.
- (16) WAVES 1
($d_w d_w P_w H_w$ -code): The direction, period and height of the **wind-propagated** wave system. (See Tables 3, 4 and 5). Ref: World Meteorological Organization Codes 0885, 3155, 1555.
- (17) WAVES 2
($d_w d_w P_w H_w$ -code): The direction, period and height of the **predominant non-wind-propagated** wave system. (See Tables 3, 4 and 5). Ref: World Meteorological Organization Codes 0885, 3155, 1555.
- (18) WIND DIRECTION: The true direction to the nearest 10 degrees from which the wind is blowing (wind direction 990 means:—wind variable or direction unknown).
- (19) WIND FORCE (WND-FCE): Beaufort notation (See Table 6).
- WIND SPEED (WND-SPD): Anemometer reading reported in metres per second. Instrument height reported in "GENERAL INFORMATION" chapter of section III.
- (20) BAROMETER: The barometric pressure reported in millibars: the "GENERAL INFORMATION" chapter in Section III of the data record will state the type of instrument used.
- (21) AIR TEMPERATURE: In degrees Celsius.
- (22) WET BULB: In degrees Celsius.
- (23) ww CODE: Present Weather Code (See Table 7). Ref: WMO Code 4677
- (24) CLOUD TYPE: The type of predominating clouds (See Table 8). Ref: WMO Code 0500.
- (25) CLOUD AMOUNT: The sky coverage in eighths (See Table 9) Ref: WMO Code 2700
- (26) VISIBILITY: Visibility at the surface (See Table 10). Ref: WMO Code 4300.
- (27) STATION: A station reference number, assigned by the institute prior to, or during the survey.
- (28) HOURS AFTER HIGH WATER: Indicates the state of the tide for nearshore observations.

OBSERVED DATA HEADINGS

(1) GMT	(2) DEPTH	(3) TEMP	(4) SAL	(5) OXYGEN	(6) SGMT
(7) SOUND	(8) PO_4	(9) -P-	(10) NO_2	(11) NO_3	(12) SiO_2
				(13) pH.	

NOTE: Headings (1) to (7) will always be present. Headings (8) to (13) appear only when one or more additional chemical entries were made.

(1) G.M.T.: The Greenwich Mean Time of (in-situ) thermometer inversion and sea water sample collection.

When a multiple cast was initiated prior to and continued after midnight, the times indicated are uninterrupted by the change of day and appear beyond 24.0 hours. This will be accompanied by a statement: "MULTIPLE CAST CONTINUED NEXT DAY", which is printed following the last level of observed values.

(2) DEPTH: The depth in metres at the reversal time of deepest cast.

(3) TEMPERATURE: Temperatures from deepsea reversing thermometers, read to 0.01° C. Surface temperature measurement procedures are described in the chapter "OBSERVATION PROCEDURES" of section I, and/or the "GENERAL INFORMATION" chapter of section III. An alphabetical character following the temperature value represents the measurement error estimate referred to in the INTRODUCTION to this section.

(4) SALINITY: Salinity as defined by: $S = 0.03 + 1.805 C1\%$, reported in:
 a. 1/100 parts per 1000, or
 b. 1/1000 parts per 1000.

In case a: an alphabetical character following the value is the measurement error estimate as referred to under (3).

In case b: no error estimate indication is provided for, but an additional decimal digit takes its place.

(5) OXYGEN: The concentration of dissolved oxygen expressed in millilitres per litre to 2 decimal places. An alphabetical character following the value is the measurement error estimate as referred to under (3).

(6) SIGMA-T: The specific gravity anomaly as defined by: $(\text{Specific gravity} - 1) \times 10^3$ (e.g., σ_t reported as 2456, reads 24.56, and corresponds to a specific gravity of 1.02456).

(7) SOUND: The sound velocity is reported in m/sec. to 1 decimal place (e.g., 1437.9 m/sec.). The computation is carried out using Wilson's formula (1960), expressed in terms of temperature, salinity and total pressure.

- (8) PO_4 Phosphate-Phosphorus reported to hundredths of microgram-atoms per litre.
- (9) -P- Total Phosphorus reported to hundredths of microgram-atoms per litre.
- (10) NO_2 Nitrite-Nitrogen reported to hundredths of microgram-atoms per litre -- No dissolved nitrogen included --
- (11) NO_3 Nitrate-Nitrogen reported to tenths of microgram-atoms per litre.
- (12) SiO_2 Silicate-Silicon reported in whole microgram-atoms per litre.
- (13) pH The pH value.

NOTE: "TRC" (trace) is reported when a chemical entry has a value less than the standard deviation of measurement for that particular variable.

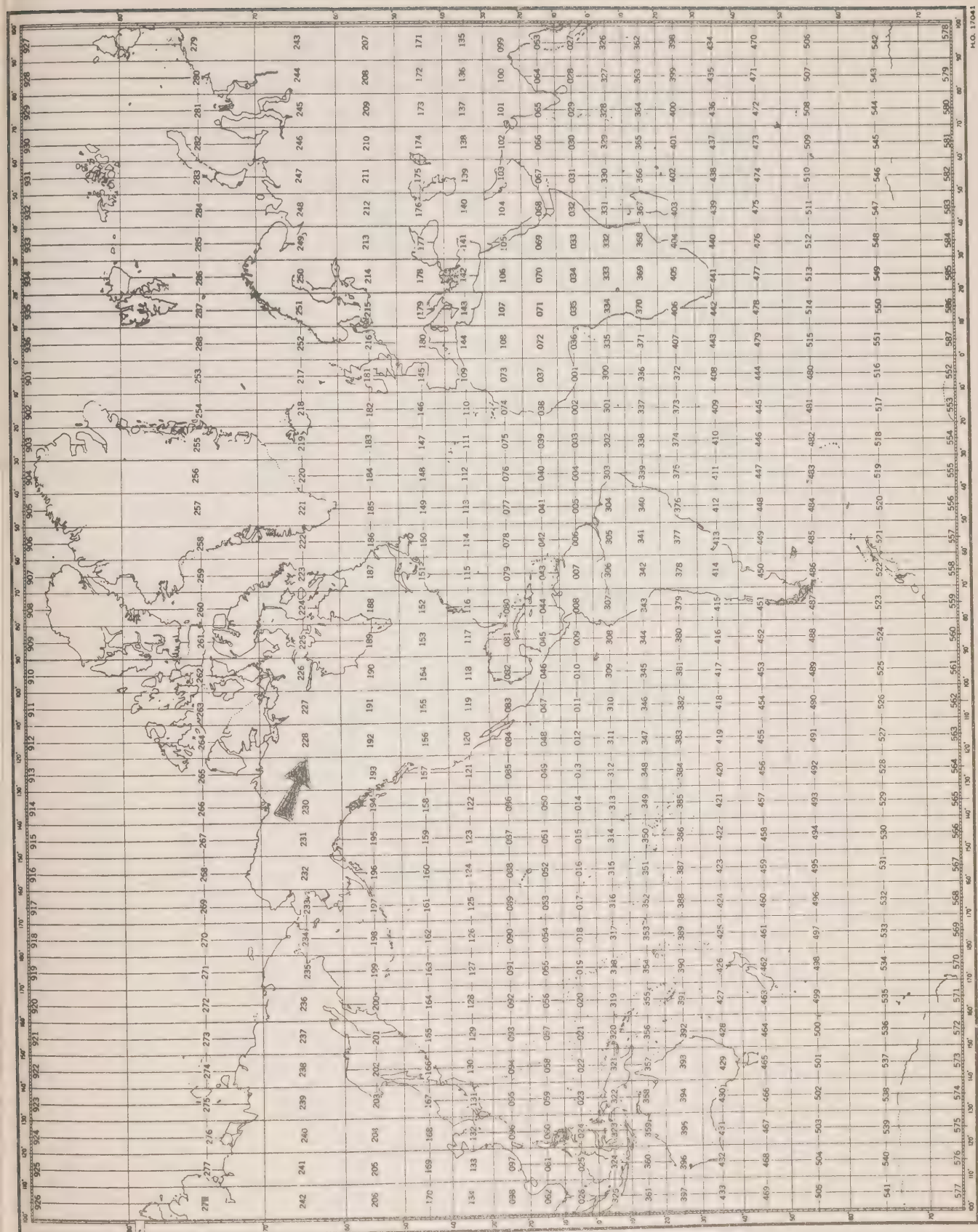
INTERPOLATED DATA HEADINGS

(1) <i>DEPTH</i>	(2) <i>TEMP</i>	(3) <i>SAL</i>	(4) <i>OXYGEN</i>	(5) <i>SGMT</i>	(6) <i>SOUND</i>
(7) <i>DELTA-D</i>	(8) <i>POT-EN</i>	(9) <i>SVA</i>			

- (1) **DEPTH:** Standard Oceanographic Depth in whole metres, as well as additional depths: 125, 175, 225, 3500, 4500, 5500, 6500, 7500, 8500, 9500.
- (2) **TEMPERATURE:** Interpolated value at standard depth, followed by the **combined measurement and interpolation error estimate** (see "INTRODUCTION" to section II of the data record).
- (3) **SALINITY:**
- A. The reported salinity values are measured to three decimal places.
 - (i) the interpolation error estimate is less than twice the standard deviation of measurement
 - the interpolated value is reported to three decimal places (e.g., 30.139).
 - (ii) the interpolation error estimate is equal to or greater than twice the standard deviation of measurement.
 - the interpolated value is reported to two decimal places, and followed by the **interpolation error estimate** (e.g., 29.23 C).
 - B. The reported salinity values are measured to two decimal places and followed by the measurement error estimate.
 - the interpolated value is reported to two decimal places, and followed by the **combined measurement and interpolation error estimate** (e.g., 30.59 B).
- (4) **OXYGEN:** Interpolated value at standard depth, followed by the **combined measurement and interpolation error estimate** (see "Introduction" to section II of the data record).

- (5) SIGMA-T: Computed from temperature and salinity values at standard oceanographic depth.
- (6) SOUND VELOCITY: Computed from temperature, salinity and total pressure values at standard oceanographic depth, using Wilson's formula (1960).
- (7) DELTA-D: The geo-potential anomaly as defined by:
- $$\Delta D = \int_0^p \delta dp$$
- ΔD is expressed in dynamic metres (10^5 ergs/gram) and recorded to three decimal places (e.g., 2.345 dyn. metres).
- (8) POTENTIAL ENERGY ANOMALY: The Potential energy anomaly χ as defined by:
- $$\chi = \frac{1}{g} \int_0^p p \delta dp = \int_0^z \rho p \delta dz$$
- χ is expressed in units of 10^8 ergs/cm² and recorded to two decimal places (e.g., 116.44).
- (9) SPECIFIC VOLUME ANOMALY: The specific volume anomaly as defined by:
- $$\delta = \alpha - \alpha_{35.0, p}$$
- δ is expressed in ml/gr, and conventionally reported as $10^6 \delta$, to one decimal place (i.e., δ reported as 1234, reads 123.4, and corresponds to a specific volume anomaly of 0.001234 ml/gr.).

NO. 17041



MARS DEN SQUARE CHART

NO. 17041

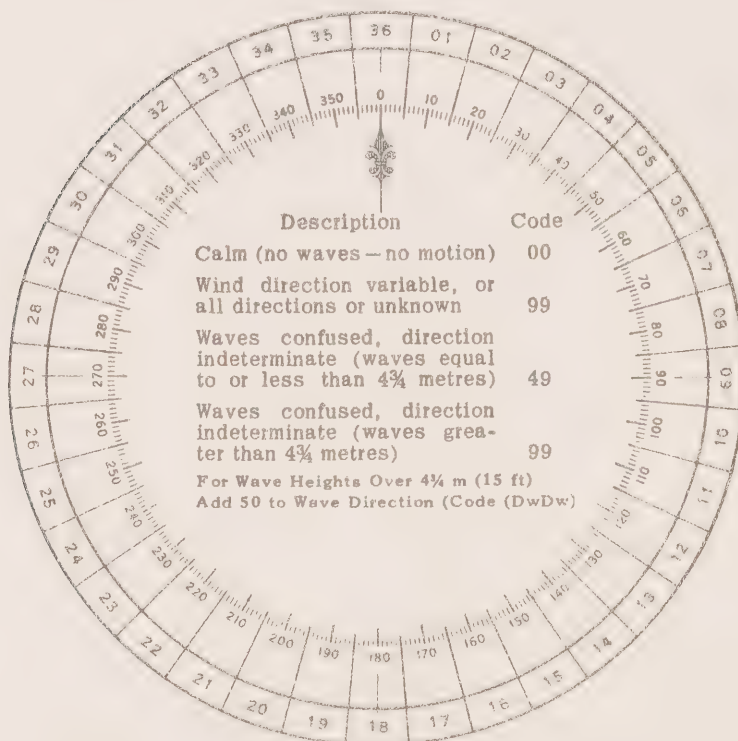
Table 1
CONVERSION
MINUTES TO $\frac{1}{4}_0$ HRS.

Minutes	Tenths Hrs.
00-03	0
04-08	1
09-15	2
16-20	3
21-27	4
28-32	5
33-39	6
40-44	7
45-51	8
52-56	9
57-59	0 (next HR.)

Table 2
WATER COLOR CODE
Based on Percentage Yellow

Code:	Description
00	Deep Blue
10	Blue
20	Greenish Blue
30	Bluish Green
40	Green
50	Light Green
60	Yellowish Green
70	Yellow Green
80	Green Yellow
90	Greenish Yellow
99	Yellow

Table 3. DIRECTION CODE (dd)



NOTE:

Always use the true direction from which the wind is blowing, or the direction from which Waves I (sea), or Waves II (swell) come.

Table 4. PERIOD OF THE WAVES (Pw)
(Measure to the Nearest Second)

Code:	Period in Seconds:	Code:	Period in Seconds:
2	5 sec. or less	8	16 or 17 sec.
3	6 or 7 sec.	9	18 or 19 sec.
4	8 or 9 sec.	0	20 or 21 sec.
5	10 or 11 sec.	1	Over 21 sec.
6	12 or 13 sec.	X	Calm, or period not determined
7	14 or 15 sec.		

Table 5. HEIGHT OF THE WAVES (Hw)

- The average value of the wave height (vertical distance between trough and crest) is reported, as obtained from the larger well formed waves of the wave system being observed.
- Each code figure provides for reporting a range of heights. For example: 1 = $\frac{1}{4}$ m (1 ft) to $\frac{3}{4}$ m ($2\frac{1}{2}$ ft); 5 = $2\frac{1}{4}$ m (7 ft) to $2\frac{3}{4}$ m (9 ft); 9 = $4\frac{1}{4}$ m ($13\frac{1}{2}$ ft) to $4\frac{3}{4}$ m (15 ft), etc.
- If a wave height comes exactly midway between the heights corresponding to two code figures, the lower code figure is reported; e.g. a height of $2\frac{3}{4}$ m is reported by code figure 5.

Code			Code
0	Less than ¼ m (1 ft)	Add 50 to Dw Dw	0 5 m (16 ft)
1	½ m (1½ ft)		1 5½ m (17½ ft)
2	1 m (3 ft)		2 6 m (19 ft)
3	1½ m (5 ft)		3 6½ m (21 ft)
4	2 m (6½ ft)		4 7 m (22½ ft)
5	2½ m (8 ft)		5 7½ m (24 ft)
6	3 m (9½ ft)		6 8 m (25½ ft)
7	3½ m (11 ft)		7 8½ m (27 ft)
8	4 m (13 ft)		8 9 m (29 ft)
9	4½ m (14 ft)		9 9½ m (30½ ft) or more
x	Height not determined		

Table 6. WIND FORCE CODE

The Beaufort force of the wind is estimated from the appearance of the sea surface, according to the table below. This table is only intended as a guide to show roughly what may be expected on the open sea, remote from land. Factors which must be taken into account are the "lag" effect between the wind increasing and the sea getting up; and the influence of "fetch", depth, swell, heavy rain and tide effect on the appearance of the sea. Estimation of the wind force by this method becomes unreliable in shallow water or when close inshore, owing to the tidal effect and the shelter provided by the land.

Code	Appearance of sea if fetch and duration of the blow have been sufficient to develop the sea fully	Description
00	Sea like a mirror	Calm
01	Ripples with the appearance of scales are formed, but without foam crests.	Light Air
02	Small wavelets; crests have a glassy appearance and do not break.	Light Breeze
03	Large wavelets; crests begin to break; foam of glassy appearance; perhaps scattered white horses.	Gentle Breeze
04	Small waves, becoming longer; fairly frequent white horses.	Moderate breeze
05	Moderate waves; many white horses are formed (chance of some spray)	Fresh Breeze
06	Large waves; white foam crests everywhere (probably some spray)	Strong Breeze
07	Sea heaps up and white foam from breaking waves begins to be blown in streaks along the direction of the wind.	Near Gale
08	Moderately high waves; edges of crests begin to break into the spindrift; foam is blown in well-marked streaks along the direction of the wind.	Gale
09	High waves; dense streaks of foam along wind; crests begin to topple, tumble and roll over; spray may affect visibility.	Strong Gale
10	Very high waves with long overhanging crests; foam in great patches blown in dense white streaks along wind; sea surface takes a white appearance; tumbling becomes heavy and shock-like; visibility affected.	Storm
11	Exceptionally high waves (medium sized ships may be lost to view behind waves); sea covered with long white patches of foam lying along the wind; everywhere edges of crests are blown into froth; visibility affected.	Violent Storm
12	Air is filled with foam and spray; sea completely white with driving spray; visibility seriously affected.	Hurricane

Table 7. PRESENT WEATHER

W.W. CODE

NO PRECIPITATION ON STATION AT TIME OF OBSERVATION

Code figure ww			
No meteors except photometeors	00	Cloud development not observed or not observable	characteristic change of the state of sky during the past hour
	01	Clouds generally dissolving or becoming less developed	
	02	State of sky on the whole unchanged	
Haze, dust, sand or smoke	03	Clouds generally forming or developing	
	04	Visibility reduced by smoke, e.g. veldt or forest fires, industrial smoke or volcanic ashes	
	05	Haze	
	06	Widespread dust in suspension in the air, not raised by wind at or near the station at the time of observation	
	07	Dust or sand raised by wind at or near the station at the time of observation, but no well developed dust whirl(s) or sand whirl(s), and no duststorm or sandstorm seen	
	08	Well developed dust whirl(s) or sand whirl(s) seen at or near the station during the preceding hour or at the time of observation, but no dustorm or sandstorm	
	09	Duststorm or sandstorm within sight at the time of observation, or at the station during the preceding hour	
	10	Mist	
	11	Patches of	shallow fog or ice fog at the station, whether on land or sea, not deeper than about 2 metres on land or 10 metres at sea
	12	More of less continuous	
	13	Lightning visible, no thunder heard	
	14	Precipitation within sight, not reaching the ground or the surface of the sea	
	15	Precipitation within sight, reaching the ground or the surface of the sea, but distant (i.e. estimated to be more than 5 km) from the station	
	16	Precipitation within sight, reaching the ground or the surface of the sea, near to, but not at the station	
	17	Thunderstorm, but no precepitation at the time of observation	
	18	Squalls	at or within sight of the station during the preceding hour or at the time of observation
	19	Funnel clouds	
ww = 20 - 29			
	20	Precipitation, fog, ice fog or thunderstorm at the station during the preceding hour but not at the time of observation	not falling as shower(s)
	21	Drizzle (not freezing) or snow grains	
	22	Rain (not freezing)	
	23	Snow	
	24	Rain and snow or ice pellets, type (a)	
	25	Freezing drizzle or freezing rain	
	26	Shower(s) of rain	
	27	Shower(s) of snow, or of rain and snow	
	28	Shower(s) of hail, or of rain and hail	
	29	Fog or ice fog	
ww = 30 - 39			
	30	Duststorm, sandstorm, drifting or blowing snow	
	31	Slight or moderate duststorm or sandstorm	-has decreased during the preceding hour -no appreciable change during the preceding hour -has begun or has increased during the preceding hour
	32		
	33	Severe duststorm or sandstorm	-has decreased during the preceding hour -no appreciable change during the preceding hour -has begun or has increased during the preceding hour
	34		
	35		
	36	Slight or moderate blowing snow	generally low (below eye level)
	37	Heavy drifting snow	
	38	Slight or moderate blowing snow	generally high (above eye level)
	39	Heavy blowing snow	
ww = 40 - 49			
	40	Fog or ice fog at the time of observation	
	41	Fog or ice fog at a distance at the time of observation, but not at the station during the preceding hour, the fog or ice fog extending to a level above that of the observer	
	42	Fog or ice fog in patches	
	43	Fog or ice fog, sky visible	has become thinner during the preceding hour
	44	Fog or ice fog, sky invisible	
	45	Fog or ice fog, sky visible	no appreciable change during the preceding hour
	46	Fog or ice fog, sky invisible	
	47	Fog or ice fog, sky visible	has begun or has become thicker during the preceding hour
	48	Fog or ice fog, sky invisible	
	49	Fog, depositing rime, sky visible	
		Fog, depositing rime, sky invisible	

NO PRECIPITATION ON STATION AT TIME OF OBSERVATION

PRECIPITATION ON STATION AT TIME OF OBSERVATION

ww = 50 - 59 Drizzle

50	Drizzle, not freezing, intermittent	} slight at time of observation
51	Drizzle, not freezing, continuous	
52	Drizzle, not freezing, intermittent	} moderate at time of observation
53	Drizzle, not freezing, continuous	
54	Drizzle, not freezing, intermittent	} heavy (dense) at time of observation
55	Drizzle, not freezing, continuous	
56	Drizzle, freezing, slight	
57	Drizzle, freezing, moderate or heavy (dense)	
58	Drizzle and rain, slight	
59	Drizzle and rain, moderate or heavy	

ww = 60 - 69 Rain

60	Rain, not freezing, intermittent	} slight at time of observation
61	Rain, not freezing, continuous	
62	Rain, not freezing, intermittent	} moderate at time of observation
63	Rain, not freezing, continuous	
64	Rain, not freezing, intermittent	} heavy at time of observation
65	Rain, not freezing, continuous	
66	Rain, freezing, slight	
67	Rain, freezing, moderate or heavy	
68	Rain or drizzle and snow, slight	
69	Rain or drizzle and snow, moderate or heavy	

70 - 79 Solid precipitation not in showers

ww

70	Intermittent fall of snow flakes	} slight at time of observation
71	Continuous fall of snow flakes	
72	Intermittent fall of snow flakes	} moderate at time of observation
73	Continuous fall of snow flakes	
74	Intermittent fall of snow flakes	} heavy at time of observation
75	Continuous fall of snow flakes	
76	Ice prisms (with or without fog)	
77	Snow grains (with or without fog)	
78	Isolated starlike snow crystals (with or without fog)	
79	Ice pellets, type (a)	

ww = 80 - 99 Showery precipitation, or precipitation with current or recent thunderstorm

80	Rain shower(s), slight	
81	Rain shower(s), moderate or heavy	
82	Rain shower(s), violent	
83	Shower(s) of rain and snow mixed, slight	
84	Shower(s) of rain and snow mixed, moderate or heavy	
85	Snow shower(s), slight	
86	Snow shower(s), moderate or heavy	
87	Shower(s) of snow pellets or ice pellets, type (b), with or without rain or rain and snow mixed	- slight
88	Shower(s) of hail, with or without rain or rain and snow mixed, not associated with thunder	- moderate or heavy
89	Shower(s) of hail, with or without rain or rain and snow mixed, not associated with thunder	- slight
90	Slight rain at time of observation	- moderate or heavy
91	Moderate or heavy rain at time of observation	
92	Slight snow, or rain and snow mixed or hail at time of observation	thunderstorm during the preceding hour but not at time of observation
93	Moderate or heavy snow, or rain and snow mixed or hail at time of observation	
94	Thunderstorm, slight or moderate, without hail, but with rain and/or snow at time of observation	
95	Thunderstorm, slight or moderate, with hail at time of observation	
96	Thunderstorm, heavy, without hail, but with rain and/or snow at time of observation	thunderstorm at time of observation
97	Thunderstorm, combined with duststorm or sandstorm at time of observation	
98	Thunderstorm, heavy, with hail at time of observation	
99	Thunderstorm, heavy, with hail at time of observation	

PRECIPITATION ON STATION AT TIME OF OBSERVATION

Table 8. CLOUD TYPE CODE

Code	Cloud Type	Code	Cloud Type
0	Cirrus Ci	5	Nimbostratus Ns
1	Cirrocumulus Cc	6	Stratocumulus Sc
2	Cirrostratus Cs	7	Stratus St
3	Alto cumulus Ac	8	Cumulus Cu
4	Altostratus As	9	Cumulonimbus Cb
X	Cloud not visible owing to darkness, fog, dust storm, sand storm, or other analogous phenomena		

Table 9. CLOUD AMOUNT CODE

Code	Cloud Cover	Code	Cloud Cover
0	0	6	6 oktas
1	1 okta or less, but not zero	7	7 oktas or more, but not 8 oktas
2	2 oktas	8	8 oktas
3	3 oktas	9	Sky obscured, or cloud amount cannot be estimated
4	4 oktas		
5	5 oktas		

Note: 1 okta = $\frac{1}{8}$ of the sky covered

Table 10. VISIBILITY

Code	Estimate of hor. Visibility
0	Less than 50 metres (less than 55 yards)
1	50-200 metres (approx. 55-220 yards)
2	200-500 metres (approx. 220-550 yards)
3	500-1,000 metres (approx. 550 yards- $\frac{1}{2}$ n.m.)
4	1-2 km (approx. $\frac{1}{2}$ -1 n.m.)
5	2-4 km (approx. 1-2 n.m.)
6	4-10 km (approx. 2-6 n.m.)
7	10-20 km (approx. 6-12 n.m.)
8	20-50 km (approx. 12-30 n.m.)
9	50 km or more (30 n.m. or more)

Note: n.m. = nautical mile

Table 11Institute Code

- 01. Atlantic Oceanographic Group.
- 02 Pacific Oceanographic Group.
- 03 Biological Station, St. Andrews, N. B.
- 04 Arctic Biological Station, Ste. Anne de Bellevue, P. Q.
- 05 Biological Station, St. John's Nfld.
- 06 Station de Biologie Marine, Grande Riviere, P. Q.
- 07. Marine Sciences Branch, Central Region.
- 08 Naval Research Establishment, Dartmouth, N. S.
- 09 Pacific Naval Laboratory, Esquimalt, B. C.
- 10 Bedford Institute of Oceanography, (MSB, Atlantic Region).
- 11 Polar Continental Shelf Project.
- 12. Great Lakes Institute.
- 13 Institute of Oceanography, University of British Columbia.
- 14 Institute of Oceanography, Dalhousie University.
- 15 Marine Sciences Branch, Pacific Region.
- 16 Department of Transport.
- 17. Marine Sciences Centre, McGill University.
- 18 RCN East Coast.
- 19 RCN West Coast.
- 20 Ontario Water Resources Commission.
- 21 Department of National Health and Welfare.
- 22. Inland Waters Branch, Dept. of Energy, Mines and Resources.

SECTION III

Serial oceanographic data

GENERAL INFORMATION

<u>Institute:</u>	Arctic Institute, Montreal.
<u>Observation platform:</u>	M. V. "Radium Gilbert".
<u>Vessel's cruising speed:</u>	8 knots.
<u>Total number of stations occupied:</u>	148.
<u>Anémometer height above sea level:</u>	5 metres.
<u>Barometer readings:</u>	Aneroid Barometer (corrected)
<u>Air temperature:</u>	Fixed Thermometer.
<u>Wet bulb temperature:</u>	Fixed Thermometer.
<u>Surface sea water temperature:</u>	Reversing Thermometer.

C-REF-NO 002	YR 1964	DEPTH 4	WAVES 1	XX	AIR T 05.6	VIS
CUNS. NO 002	MONTH 7	MXSAMPD 00	WAVES 2	XX	WET B 04.2	STN 001
LAT 66-051N	DAY 13	NO. DPTH 1	WNC-DIR 220	Ww-CODE		
LUN 116-017W	HR 02.0	W-COLOR	WNC-FCE 03	CLD-TPE 1		
MARSD SQ 228	C/I 1804	W-TRNSP	BARO 1011.3	CLD-AMT 8	Hw	

OBSERVED

SPT DEPTH F M P S A L OXYGEN SGFT SOUND PD4 -P- NO2 NO3 SID PH
VZU OL .930

C-REF-NO 002	YR 1964	DEPTH 4	WAVES 1	XX	AIR T 04.9	VIS
CONS. NO 003	MONTH 7	MXSAMPD 00	WAVES 2	XX	WET B 03.8	STN 001
LAT 66-051N	DAY 13	NO.DPTH 1	WNC-DIR 270	WW-CODE		
LON 118-017W	HR 15.0	W-COLOR	WND-FCE 01	CLD-TPE 6		
MARSD SQ 228	C/I 1804	W-TRNSP	BARU 1010.8	CLD-AMT 8		Hw

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH	4	WAVES 1	XX	AIR T	06.1	VIS
CONS. NO 004	MONTH 7	MXSAMPD	00	WAVES 2	XX	WET B	05.5	STN 001
LAT 66-051N	DAY 13	NO.DPTH	1	WND-DIR	220	WW-CODE	02	
LONG 118-017W	HR 21.5	W-COLOR		WND-FCE	02	CLD-TPE	1	
MAXSD SQ 228	C/I 1804	W-TRNSP		BARO	1010.3	CLD-AMT	8	HW

O B S E R V E D

GMT DEPTH TEMP SAL OXYGEN SGMT SOUND PO4 -P- NO2 NO3 SIO PH

215 0000 0890

AIR T

-P- N

C-REF-NO 002	YR 1964	DEPTH 4	WAVES 1	XX	AIR T	VIS
CONS. NO 006	MONTH 7	MXSAMPD 00	WAVES 2	XX	WET B	STN 001
LAT 66-051N	DAY 14	NO. DPTH 1	WND-DIR 290	WW-CODE		
LON 118-017W	HR 10.4	W-COLOR	WND-FCE 03	CLD-TPE 7		
MARSD SQ 228	C/I 1804	W-TRNSP	BARU	CLD-AMT 8	HW	

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	P04 -P-	N02 N03	SIO	PH
100	0000	0850								

C-REF-NO 002	YR 1964	DEPTH 4	WAVES 1	XX	AIR T 09.4	VIS
CONS. NO 007	MONTH 7	MXSAMPD 00	WAVES 2	XX	WET B 08.8	STN 001
LAT 66-051N	DAY 14	NO.DPTH 1	WND-DIR 310	WW-CODE		
LON 118-017W	HR 15.0	W-COLOR	WND-FCE 03	CLD-TPE 7		
MARSD SQ 228	C/I 1804	W-TRNSP	BAKO 1012.3	CLD-AMT 8	Hw	

O B S E R V E D

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GMT DEPTH T E M P S A L OXYGEN SGMT SOUND PO4 -P- NO2 NO3 SI0 PH
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150 0000 0750
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C-REF-NO 002	YR 1964	DEPTH 4	WAVES 1	XX	AIR T 06.9	VIS
CUNS. NO 008	MONTH 7	MXSAMPD 00	WAVES 2	XX	WET B 05.2	STN 001
LAT 66-051N	DAY 15	NO.DPTH 1	WND-DIR 310	WW-CODE 01		
LON 118-017W	HR 05.0	W-COLOR	WND-FCE 01	CLD-TPE 6		
MARSD SQ 228	C/I 1804	W-TRNSP	BAKO 1017.3	CLD-AMT 7	HW	

O B S E R V E D

GMT DEPTH TEMP SAL OXYGEN SGMT SOUND PU4 -P- NO2 NO3 SIO PH
050 0000 0750

C-REF-NO 002	YR 1964	DEPTH 402	WAVES 1 00X0	AIR T 05.6	VIS
CONS. NO 009	MONTH 7	MXSAMPD 03	WAVES 2 00X0	WET B 04.4	STN 002
LAT 66-045N	DAY 15	NO.DPTH 6	WND-DIR CALM	WW-CODE 02	
LON 118-132W	HR 13.0	W-COLOR	WND-FCE 00	CLD-TPE 6	
MARSD SQ 228	C/I 1804	W-TRNSP	BARO 1012.8	CLD-AMT 6	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	PO4 -P-	NO2	NO3	SIO	PH
130	0000	0236		960							
130	0050	0233		948							
130	0100	0302		905							
130	0150	0337		959							
135	0230	0359		905							
135	0280	0361		889							

C-REF-NO 002	YR 1964	DEPTH	99	WAVES 1	00X0	AIR T	09.4	VIS	
CONS. NO 010	MONTH 7	MXSAMPD	00	WAVES 2	00X0	WET B	07.2	STN	003
LAT 65-535N	DAY 15	NO.DPTH	1	WND-DIR	CALM	WW-CODE	02		
LUN 119-532W	HR 20.8	W-COLOR		WND-FCE	00	CLD-TPE	1		
MARSD SQ 228	C/I 1804	W-TRNSP		BAKO		CLD-AMT	2	HW	

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH		WAVES 1	XX	AIR T	08.8	VIS	
CONS. NO 011	MONTH 7	MXSAMPD	00	WAVES 2	XX	WET B	05.8	STN	004
LAT 65-370N	DAY 16	NO.DPTH	1	WND-DIR	060	WW-CODE	01		
LON 121-540W	HR 04.0	W-COLOR		WND-FCE	02	CLD-TPE	6		
MARSD SQ 229	C/I 1804	W-TRNSP		BARO	1008.8	CLD-AMT	1	HW	

OBSERVED

GMT DEPTH T E M P S A L OXYGEN SGMT SOUND P04 -P- NO2 NO3 SIO PH

040 0000 0250

C-REF-NO 002	YR 1964	DEPTH 4	WAVES 1 00X0	AIR T 09.7	VIS
CONS. NO 012	MONTH 7	MXSAMPD 00	WAVES 2 00X0	WET B 07.7	STN 005
LAT 65-081N	DAY 16	NO. DPTH 1	WNC-DIR 040	WW-CODE 02	
LCN 123-300W	HR 14.0	W-COLOR	WNC-FCE 02	CLD-TPE 0	
MARSD SQ 229	C/I 1804	W-TRNSP	BARO 1010.3	CLD-AMT 1	HW

O B S E R V E D

GMT DEPTH TEMP SAL CYGEN SGMT SOUND PO4 -P- NO2 NO3 SIO PH

140 0000 0820

C-REF-NO 002	YR 1964	DEPTH 22	WAVES 1 0221	AIR T C6.1	VIS
CONS. NO 014	MONTH 7	PXSAMPC 00	WAVES 2 00X0	WET B 05.5	STN 006
LAT 65-262N	DAY 17	NO.DPTH 1	WND-DIR 020	WW-CCDE 05	
LON 121-450W	HR 05.0	W-COLOR	WND-FCE 01	CLD-TPE	
MARSD Q4 229	C/I 1804	W-TRNSP	BARO 1009.3	CLD-AMT 0	HW

O B S E R V E D

```

GMT  DEPTH  T E M P  S A L  CXYGEN  SGMT  SOUND  PO4 -P- NO2 NO3 SIO  PH
050  0000      0400

```

C-REF-NO 002	YR 1964	DEPTH 84	WAVES 1 0620	AIR T 06.6	VIS
CUNS. NO 015	MONTH 7	MXSAMPD 00	WAVES 2 0000	WET B 05.5	STL 007
LAT 65-522N	DAY 17	NO.DPTH 1	WNC-DIR 060	WW-CODE 03	
LOU 120-083W	HR 13.3	W-COLOR	WND-FCE 01	CLD-TPE 3	
MARSD SQ 229	C/I 1804	W-TRNSP	BARO 1010.3	CLD-AMT 2	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH 121	WAVES 1 13X0	AIR T 08.8	VIS
CONS. NO 016	MONTH 7	MXSAMPD 00	WAVES 2 00X0	WET B 06.6	STN 008
LAT 66-050N	DAY 17	NO.DPTH 1	WNC-DIR 130	WW-CODE 02	
LON 118-412W	HAY 19.0	W-COLOR	WNO-FCE 01	CLD-TPE 8	
MARSD SQ 228	C/I 1804	W-TRNSP	BARO 1010.3	CLD-AMT 2	HW

O B S E R V E D

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GMT  DEPTH  T E M P  S A L  CXYGEN  SGMT  SOUND  PO4 -P- NO2 NO3 SIO  PH
190  0000    0300

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C-REF-NO 002 YR 1964 DEPTH 380 WAVES 1 XX AIR T 09.4 VIS
 CONS. NO 017 MONTH 7 MXSAMPD 00 WAVES 2 XX WET B 07.2 STN 009
 LAT 65-047N DAY 17 NO.DPTH 1 WND-DIR 160 WW-CODE 02
 LON 118-090W HR 21.8 W-COLOR WND-FCE 01 CLD-TPE 8
 MARSD SQ 228 C/I 1804 W-TRNSP BARO 1009.8 CLD-AMT 2 HW

O B S E R V E D

GMT DEPTH T E M P S A L OXYGEN SGMT SOUND PO4 -P- NO2 NO3 SIO PH

218 0000 0380

TIME-DISTANCE CHECK FAILED

C-REF-NO 002	YR 1964	DEPTH 13	WAVES 1 XX	AIR T 11.6	VIS
CONS. NO 019	MONTH 7	MXSAMPD 00	WAVES 2 XX	WET B 09.4	STN 011
LAT 66-203N	DAY 18	NO.DPTH 2	WND-DIR 040	WW-CGDE 02	
LUN 117-453W	HR 22.0	W-COLOR	WND-FCE 01	CLD-TPE 1	
MARSD SQ 228	C/I 1804	W-TRNSP	BAKO 1008.3	CLD-AMT 1	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH 15	WAVES 1	XX	AIR T 17.7	VIS
CONS. NO 021	MONTH 7	MXSAMPD 00	WAVES 2	XX	WET B 13.8	STN 010
LAT 66-201N	DAY 20	NO.DPTH 6	WND-DIR 040	WW-CODE 01		
LUN 117-458W	HR 15.0	W-COLOR	WND-FCE 01	CLD-TPE 1		
MARSD SQ 228	C/I 1804	W-TRNSP	BARO 1007.3	CLD-AMT 3	HW	

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH 60	WAVES 1 XX	AIR T 07.2	VIS
CGNS. NO 022	MONTH 7	MXSAMPD 00	WAVES 2 XX	WET B 06.3	STN 013
LAT 65-416N	DAY 21	NO.DPTH 1	WND-DIR 040	WW-CODE 05	
LON 118-360W	HR 20.0	W-COLOR	WND-FCE 01	CLD-TPE 7	
MARSD SQ 228	C/I 1804	W-TRNSP	BAKO 1006.8	CLD-AMT 8	HW

O B S E R V E D

GMT DEPTH T E M P S A L OXYGEN SGMT SOUND PO4 -P- NO2 NO3 SID PH
200 0000 0650

C-REF-NO 002	YR 1964	DEPTH 4	WAVES 1	XX	AIR T 09.9	VIS
CONS. NO 023	MONTH 7	MXSAMPD 00	WAVES 2	XX	WET B 08.3	STN 001
LAT 66-051N	DAY 22	NO.DPTH 1	WND-DIR 220	WW-CODE 02		
LON 118-017W	HR 15.8	W-COLOR	WND-FCE 01	CLD-TPE 1		
MARSD SQ 228	C/I 1804	W-TRNSP	BARO 1005.3	CLD-AMT 6	HW	

O B S E R V E D

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GMT DEPTH T E M P S A L OXYGEN SGMT SOUND PO4 -P- NO2 NO3 SIO PH
158 0000 0830
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C-REF-NO 002	YR 1964	DEPTH 4	WAVES 1 00X0	AIR T 14.4	VIS
CONS. NO 024	MONTH 7	MXSAMPD 00	WAVES 2 00X0	WET B 11.6	STN 001
LAT 66-051N	DAY 22	NO.DPTH 1	WND-DIR 310	WD-CODE 15	
LON 118-017W	HR 19.5	W-COLOR	WND-FCE 01	CLD-TPE	
MARSD SQ 228	C/I 1804	W-TRNSP	BARO 1014.8	CLD-AMT	HW

O B S E R V E D

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GMT  DEPTH  T E M P  S A L  OXYGEN  SGMT  SOUND  PO4 -P- NO2 NO3 SIO  PH
195  0000      0900

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C-REF-NO 002	YR 1964	DEPTH 432	WAVES 1 3100	AIR T 09.4	VIS
CONS. NO 025	MONTH 7	MXSAMPD 04	WAVES 2 00X0	WET B 07.7	STN 002
LAT 66-045N	DAY 22	NO.DPTH 15	WND-DIR 310	WW-CODE 03	
LON 118-132W	HR 23.9	W-COLOR	WND-FCE 01	CLD-TPE 1	
MARSD SQ 228	C/I 1804	W-TRNSP 17	BARO 1004.3	CLD-AMT 8	HW

OBSERVED

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	PO4 -P-	NO2	NO3	SIO	PH
239	0000	0300		984							
235	0003	0292		1002							
235	0005	0292		987							
235	0010	0293		992							
225	0030	0290		997							
232	0100	0303		982							
225	0123	0352		892							
232	0150	0357		928							
225	0188	0364		892							
225	0200	0363		929							
215	0300	0357		913							
225	0317	0357		889							
215	0347	0359		880							
215	0398	0356		849							
225	0400	0356		859							

C-REF-NO 002	YR 1964	DEPTH 4	WAVES 1 00X0	AIR T 05.6	VIS
CONS. NO 026	MONTH 7	MXSAMPD 00	WAVES 2 XX	WET B 05.4	STN 001
LAT 66-051N	DAY 23	NO. DPTH 1	WNC-DIR CALM	WW-CODE 61	
LON 118-017W	HR 03.5	W-COLOR	WND-FCE 00	CLD-TPE 7	
MARSD SQ 228	C/I 1804	W-TRNSP	BARO 1002.3	CLD-AMT 8	HW

O B S E R V E D

GMT DEPTH T E M P S A L OXYGEN SGMT SOUND PO4 -P- NO2 NO3 SIO PH
035 0000 0900

C-REF-NO 002	YR 1964	DEPTH 4	WAVES 1 00X0	AIR T 09.9	VIS
CONS. NO 027	MONTH 7	MXSAMPD 00	WAVES 2 00X0	WET B 09.9	STN 001
LAT 66-051N	DAY 23	NO.DPTH 1	WND-DIR CALM	WW-CODE 63	
LON 118-017W	HR 15.2	W-COLOR	WND-FCE 00	CLD-TPE 7	
MARSD SQ 228	C/I 1804	W-TRNSP	BARO 1005.3	CLD-AMT 8	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH 432	WAVES 1 31X0	AIR T 04.4	VIS 1
CONS. NO 028	MONTH 7	MXSAMPD 02	WAVES 2 00X0	WET B 04.4	STN 002
LAT 66-045N	DAY 23	NO.DPTH 6	WND-DIR 300	WW-CODE 44	
LON 118-132W	HR 21.0	W-COLOR	WND-FCE 01	CLD-TPE	
MARSD SQ 228	C/I 1804	W-TRNSP 17	BARO 1002.3	CLD-AMT	HW

OBSERVED

[illegible]

C-REF-NO 002	YR 1964	DEPTH 4	WAVES 1 00X0	AIR I 06.6	VIS
CONS. NO 029	MONTH 7	MXSAMPD 00	WAVES 2 XX	WET B 06.6	STN 001
LAT 66-051N	DAY 24	NO.DPTH 1	WND-DIR CALM	WW-CODE 01	
LCN 118-017W	HR 04.0	W-COLOR	WND-FCE 00	CLD-TPE 1	
MAKSD SQ 228	C/I 1804	W-TRNSP	BARO 1003.3	CLD-AMT 2	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH 4	WAVES 1 00X0	AIR T 08.6	VIS 6
CUNS. NO 030	MONTH 7	MXSAMPD 00	WAVES 2 00X0	WET B 07.7	STN 001
LAT 66-051N	DAY 24	NO.DPTH 1	WND-DIR 220	WW-CODE 43	
LUN 118-017W	HR 19.0	W-COLOR	WND-FCE 01	CLD-TPE	
MARSD SQ 228	C/I 1804	W-TRNSP	BARO 1008.3	CLD-AMT 0	HW

O B S E R V E D

GMT DEPTH T E M P S A L OXYGEN SGMT SOUND PO4 -P- NO2 NO3 SIO PH

190 0000 0840

C-REF-NO 002	YR 1964	DEPTH 265	WAVES 1 2721	AIR T 04.7	VIS 9
CONS. NO 031	MONTH 7	MXSAMPD 00	WAVES 2 00X0	WET B 04.4	STN 014
LAT 66-077N	DAY 25	NO.DPTH 1	WND-DIR 270	WW-CODE 02	
LOX 118-420W	HR 05.6	W-COLOR	WND-FCE 01	CLO-TPE 1	
MARSD SQ 228	C/I 1804	W-TRNSP	BARO 1008.3	CLO-AMT 2	HW

O B S E R V E D

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GMT  DEPTH  T E M P  S A L  OXYGEN  SGMT  SOUND  -PQ4 -P- NO2 NO3 SIO  PH
056  0000      0320

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C-REF-NO 002	YR 1964	DEPTH 24	WAVES 1 00X0	AIR T 06.9	VIS 8
CONS. NO 033	MONTH 7	MXSAMPD 00	WAVES 2 00X0	WET B 06.3	STN 016
LAT 66-260N	DAY 25	NO.DPTH 1	WND-DIR 220	WW-CODE	
LON 122-467W	HR 18.0	W-COLOR	WND-FCE 01	CLD-TPE 6	
MARSD SQ 229	C/I 1804	W-TRNSP	BARO 1006.3	CLD-AMT 3	HW

O B S E R V E D

GMT DEPTH T E M P S A L OXYGEN SGMT SOUND PO4 -P- NO2 NO3 SIO PH
180 0000 0320

C-REF-NO 002	YR 1964	DEPTH	7	WAVES 1 0420	AIR T 11.1	VIS 9
CONS. NO 034	MONTH 7	MXSAMPD	00	WAVES 2 00X0	WET B 08.3	STN 017
LAT 66-305N	DAY 26	NO.DPTH	2	WND-DIR 040	WW-CODE 02	
LON 123-102W	HR 17.5	W-COLOR		WND-FCE 04	CLD-TPE 1	
MAKSD SQ 229	C/I 1804	W-TRNSP		BARO 1014.8	CLD-AMT 2	HW

OBSERVED

[illegible]

C-REF-NO 002	YR 1964	DEPTH 101	WAVES 1 00X0	AIR T 08.0	VIS 9
CONS. NO 035	MONTH 7	MXSAMPD 01	WAVES 2 00X0	WET B 05.6	STN 019
LAT 66-217N	DAY 26	NO.DPTH 6	WND-DIR 040	WW-CODE 01	
LUN 123-145W	HR 19.5	W-COLOR	WND-FCE 01	CLO-TPE 8	
MARSD SQ 229	C/I 1804	W-TRNSP	BARO 1014.8	CLO-AMT 1	HW

O B S E R V E D

[illegible]

C-REF-NO 002 YR 1964 DEPTH 18 WAVES 1 C223 AIR T 06.9 VIS
 CONS. NO 038 MONTH 7 MXSAMPD 00 WAVES 2 00X0 WET B 06.1 STN 024
 LAT 66-133N DAY 27 NO.DPTH 1 WND-DIR 020 WW-CODE
 LON 124-311W HR 18.5 W-COLOR WND-FCE 04 CLD-TPE 6
 MARSD SQ ~~229~~ C/I 1804 W-TRNSP BARO 1010.8 CLD-AMT 1 HW
 228

O B S E R V E D

GMT DEPTH T E M P S A L OXYGEN SGMT SOUND PO4 -P- NO2 NO3 SIO PH
 185 0000 0550

C-REF-NO 002	YR 1964	DEPTH 7	WAVES 1 00X0	AIR T 06.9	VIS
CONS. NO 039	MONTH 7	MXSAMPD 00	WAVES 2 00X0	WET B 06.1	STN 023
LAT 66-191N	DAY 27	NO.DPTH 5	WND-DIR 020	WW-CODE 02	
LON 124-200W	HR 21.0	W-COLOR	WND-FCE 04	CLD-TPE 6	
MARSD SQ 229	C/I 1804	W-TRNSP 07	BARO 1010.8	CLD-AMT 1	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH 4	WAVES 1 00X0	AIR T 13.3	VIS
CONS. NO 040	MONTH 7	MXSAMPD 00	WAVES 2 00X0	WET B 09.9	STN 021
LAT 66-193N	DAY 28	NO.DPTH 1	WND-DIR 020	WW-CODE	
LEN 124-201W	HR 03.0	W-COLOR	WND-FCE 02	CLD-TPE 6	
MARSD SQ 229	C/I 1804	W-TRNSP	BARO 1012.8	CLD-AMT 1	HW

O B S E R V E D

GMT DEPTH TEMP SAL OXYGEN SGMT SOUND PO4 -P- NO2 NO3 SIO PH

030 0000 1040

C-REF-NO 002	YR 1964	DEPTH 20	WAVES 1 0622	AIR T 08.8	VIS 9
CONS. NO 041	MONTH 7	MXSAMPD 00	WAVES 2 XX	WET B 07.2	STN 024
LAT 66-133N	DAY 28	NO.DPTH 2	WND-DIR 080	WW-CODE 02	
LON 124-311W	HR 19.0	W-COLOR	WND-FCE 04	CLD-TPE 1	
MARSD SQ 229	C/I 1804	W-TRNSP	BARO 1011.8	CLD-AMT 1	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH	4	WAVES 1 00X0	AIR T 17.7	VIS 9
CONS. NO 042	MONTH 7	MXSAMPD	00	WAVES 2 00X0	WET B 13.3	STN 021
LAT 66-193N	DAY 29	NO.DPTH	1	WND-DIR 080	WD-CODE 02	
LUN 124-201W	HR 01.0	W-COLOR		WND-FCE 02	CLD-TPE 8	
MAKSD SQ 229	C/I 1804	W-TRNSP		BARO 1009.3	CLD-AMT 1	HW

O B S E R V E D

010 0000 1040

C-REF-NO 002	YR 1964	DEPTH 57	WAVES 1 00X0	AIR T 08.3	VIS 5
CUNS. NO 043	MONTH 7	MXSAMPD 00	WAVES 2 00X0	WET B 07.2	STN 026
LAT 66-161N	DAY 29	NO.DPTH 1	WND-DIR 070	WW-CODE 02	
LON 124-010W	HR 17.6	W-COLOR	WND-FCE 01	CLD-TPE	
MARSD SQ 229	C/I 1804	W-TRNSP	BARO 1005.3	CLD-AMT 0	Hw

O B S E R V E D

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GMT  DEPTH  T E M P  S A L  OXYGEN  SGMT  SOUND  .PQ4  -P-  NO2  NO3  SIO  PH
176  0000      0320

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C-REF-NO 002	YR 1964	DEPTH	54	WAVES 1 COXO	AIR T 08.3	VIS
CONS. NO 044	MONTH 7	MXSAMPD	00	WAVES 2 OOXO	WET B 07.2	STN 027
LAT 66-150N	DAY 29	NO.DPTH	3	WND-DIR 020	WW-CODE	
LOX 123-452W	HR 19.0	W-COLOR		WND-FCE 01	CLD-TPE	
MARSD SQ 229	C/I 1804	W-TRNSP	12	BARO 1004.3	CLD-AMT	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH 8	WAVES 1 00X0	AIR T 17.7	VIS 9
CUNS. NO 045	MONTH 7	MXSAMPD 00	WAVES 2 00X0	WET B 14.4	STN 028
LAT 66-055N	DAY 30	NO. DPTH 1	WND-DIR 180	WW-CODE 02	
LUN 123-088W	HR 05.0	W-COLOR	WND-FCE 01	CLD-TPE 8	
MARSD SQ 229	C/I 1804	W-TRNSP 05	BARO 1003.8	CLD-AMT 1	HW

O B S E R V E D

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GMT  DEPTH  T E M P  S A L  OXYGEN  SGMT  SOUND  PO4 -P- NO2 NO3 SIO  PH
050  0000      1500

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C-REF-NO 002	YR 1964	DEPTH 8	WAVES 1 3622	AIR T 09.9	VIS 9
CONS. NO 046	MONTH 7	MXSAMPD 00	WAVES 2 00X0	WET B 08.8	STN 028
LAT 66-055N	DAY 30	NO.DPTH 1	WND-DIR 360	WW-CODE 03	
LUN 123-088W	HR 16.0	W-COLOR	WND-FCE 02	CLD-TPE 0	
MARSD SQ 229	C/I 1804	W-TRNSP 05	BARO 1004.3	CLD-AMT 6	HW

O B S E R V E D

GMT DEPTH T E M P S A L OXYGEN SGMT SOUND PO4 -P- NO2 NO3 SIO PH

160 0000 1120

C-REF-NO 002	YR 1964	DEPTH	91	WAVES 1 0436	AIR T 12.2	VIS
CONS. NO 047	MONTH 7	MXSAMPD	00	WAVES 2 XX	WET B 09.9	STN 031
LAT 66-204N	DAY 30	NO.DPTH	1	WND-DIR 020	WW-CODE 02	
LON 123-060W	HR 19.0	W-COLOR		WND-FCE 06	CLD-TPE 8	
MARSD SQ 229	C/I 1804	W-TRNSP		BAKO 1004.3	CLD-AMT 1	HW

O B S E R V E D

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GMT DEPTH T E M P S A L OXYGEN SGMT SOUND PO4 -P- NO2 NO3 SIO PH
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190 0000 0400
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C-REF-NO 002	YR 1964	DEPTH	5	WAVES 1 COXO	AIR T	12.2	VIS
CONS. NO 048	MONTH 7	MXSAMPD	00	WAVES 2 OOXO	WET B	09.9	STN 017
LAT 66-305N	DAY 30	NO.DPTH	1	WND-DIR 020	WW-CODE	02	
Lon 123-102W	HR 21.5	W-COLOR		WND-FCE 04	CLD-TPE	8	
MARSD SQ 229	C/I 1804	W-TRNSP		BARO 1004.3	CLD-AMT	1	HW

O B S E R V E D

GMT DEPTH TEMP SAL OXYGEN SGMT SOUND PO4 -P- NO2 NO3 SIO PH

215 0000 0620

C-REF-NO 002	YR 1964	DEPTH	91	WAVES 1 2721	AIR T 06.1	VIS 6
CONS. NO 049	MONTH 7	MXSAMPD	01	WAVES 2 0000	WET B 05.5	STN 031
LAT 66-204N	DAY 31	NO.DPTH	8	WND-DIR 270	WW-CODE 41	
LON 123-040W	HR 17.0	W-COLOR		WND-FCE 02	CLD-TPE 8	
MARSD SQ 229	C/I 1804	W-TRNSP	13	BAKO 1001.3	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	PO4 -P-	NO2	NO3	SIO	PH
170	0001	0354		942							
170	0003	0353		945							
170	0004	0350		939							
170	0006	0351		925							
180	0009	0349		948							
180	0017	0343		942							
180	0043	0347		948							
180	0087	0348		945							

C-REF-NO 002	YR 1964	DEPTH	64	WAVES 1 0421	AIR T 13.8	VIS
CONS. NO 050	MONTH 7	MXSAMPD	01	WAVES 2 00X0	WET B 12.2	STN 032
LAT 66-297N	DAY 31	NO.DPTH	4	WND-DIR 040	WW-CODE 03	
LUN 123-095W	HR 20.0	W-COLOR		WND-FCE 03	CLD-TPE 6	
MARSD SQ 229	C/I 1804	W-TRNSP	11	BARO 997.3	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	PO4 -P-	NO2	NO3	SIO	PH
200	0000	0720		919							
200	0010	0680		936							
200	0020	0550		934							
200	0060	0463		948							

C-REF-NO 002	YR 1964	DEPTH 49	WAVES 1 00X0	AIR T 05.5	VIS
CONS. NO 051	MONTH 8	MXSAMPD 00	WAVES 2 0921	WET B 05.2	STN 033
LAT 66-236N	DAY 01	NO.DPTH 1	WND-DIR 220	WW-CODE 41	
LON 122-532W	HR 15.0	W-COLOR	WND-FCE 01	CLD-TPE 7	
MARSD SQ 229	C/I 1804	W-TRNSP	BARO 1007.3	CLD-AMT 8	HW

O B S E R V E D

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GMT  DEPTH  T E M P  S A L  OXYGEN  SGMT  SOUND  PD4  -P-  NO2  NO3  SID  PH
150  0000      0400

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C-REF-NO 002	YR 1964	DEPTH 23	WAVES 1 00X0	AIR T 04.9	VIS
CONS. NO 052	MONTH 8	MXSAMPD 00	WAVES 2 0933	WET B 03.8	STN 034
LAT 66-329N	DAY 01	NO.DPTH 1	WND-DIR	WW-CODE 01	
LUN 121-490W	HR 18.5	W-COLOR	WND-FCE	CLD-TPE 6	
MARSD SQ 229	C/I 1804	W-TRNSP	BARO	CLD-AMT 7	HW

O B S E R V E D

GMT DEPTH T E M P S A L OXYGEN SGMT SOUND PO4 -P- NO2 NO3 SIO PH
185 0000 0400

C-REF-NO 002	YR 1964	DEPTH 77	WAVES 1 00X0	AIR T 08.8	VIS 9
CONS. NO 053	MONTH 8	MXSAMPD 00	WAVES 2 XX	WET B 06.1	STN 035
LAT 66-542N	DAY 02	NO.DPTH 1	WND-DIR 080	WW-CODE 01	
LON 119-425W	HR 01.0	W-COLOR	WND-FCE 02	CLD-TPE 1	
MARSD SQ 228	C/I 1804	W-TRNSP	BARO 1009.3	CLD-AMT 6	HW

OBSERVED

[illegible]

C-REF-NO 002	YR 1964	DEPTH 11	WAVES 1 0421	AIR T 10.5	VIS
CONS. NO 055	MONTH 8	MXSAMPD 00	WAVES 2 00X0	WET B 06.6	STN 038
LAT 66-532N	DAY 02	NO.DPTH 2	WND-DIR 040	WW-CODE 02	
LON 119-078W	HR 18.0	W-COLOR	WND-FCE 02	CLD-TPE 8	
MARSD QZ 228	C/I 1804	W-TRNSP	BARO 1014.3	CLD-AMT 2	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH 27	WAVES 1 00X0	AIR T 13.8	VIS
CONS. NO 057	MONTH 8	MXSAMPD 00	WAVES 2 00X0	WET B 09.4	STN 039
LAT 66-517N	DAY 03	NO.DPTH 2	WND-DIR 040	WW-CODE 02	
LON 119-060W	HR 16.0	W-COLOR	WND-FCE 01	CLD-TPE 3	
MAKSD SQ 228	C/I 1804	W-TRNSP	BARO 1014.3	CLD-AMT 3	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH 82	WAVES 1 00X0	AIR T 08.8	VIS
CONS. NO 058	MONTH 8	MXSAMPD 01	WAVES 2 00X0	WET B 07.2	STN 040
LAT 66-520N	DAY 03	NO.DPTH 6	WND-DIR 070	WD-CODE 02	
LUN 119-512W	HR 18.0	W-COLOR	WND-FCE 01	CLD-TPE 3	
MARSD SQ 228	C/I 1804	W-TRNSP 13	BARO 1013.3	CLD-AMT 3	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH 3	WAVES 1 00X0	AIR T 22.2	VIS
CONS. NO 059	MONTH 8	MXSAMPD 00	WAVES 2 00X0	WET B 12.7	STN 041
LAT 66-554N	DAY 04	NO.DPTH 2	WND-DIR 040	WW-CODE 02	
LON 118-519W	HR 18.0	W-COLOR	WND-FCE 02	CLD-TPE 3	
MARSD SQ 228	C/I 1804	W-TRNSP 04	BARO 1010.3	CLD-AMT 5	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH 3	WAVES 1 COXO	AIR T 22.2	VIS
CONS. NO 060	MONTH 8	MXSAMPD 00	WAVES 2 00X0	WET B 12.7	STN 042
LAT 66-527N	DAY 04	NO.DPTH 1	WND-DIR 040	WW-CODE 02	
LON 118-572W	HR 22.0	W-COLOR	WND-FCE 02	CLD-TPE 3	
MARSD SQ 228	C/I 1804	W-TRNSP 03	BARO 1010.3	CLD-AMT 5	HW

O B S E R V E D

GMT DEPTH TEMP SAL OXYGEN SGMT SOUND PO4 -P- NO2 NO3 SIO PH

220 0000 1010

C-REF-NO 002	YR 1964	DEPTH 64	WAVES 1 00X0	AIR T 10.5	VIS
CUNS. NO 061	MONTH 8	MXSAMPD 00	WAVES 2 00X0	WET 8 07.7	STN 043
LAT 66-554N	DAY 05	NO.DPTH 1	WND-DIR CALM	WW-CODE 02	
CON 120-051W	HR 20.3	W-COLOR	WND-FCE 00	CLD-TPE 8	
MARSD SQ 229	C/I 1804	W-TRNSP	BARO 1012.3	CLD-AMT 1	HW

O B S E R V E D

GMT DEPTH T E M P S A L OXYGEN SGMT SOUND PO4 -P- NO2 NO3 SID PH
203 0000 0420

C-REF-NO 002	YR 1964	DEPTH 21	WAVES 1 00X0	AIR T 17.7	VIS 9
CONS. NO 062	MONTH 8	MXSAMPD 00	WAVES 2 00X0	WET B 13.3	STN 045
LAT 66-562N	DAY 06	NO.DPTH 6	WND-DIR CALM	WW-CODE 02	
LON 119-385W	HR 18.5	W-COLOR	WND-FCE 00	CLD-TPE 8	
MARSD SQ 228	C/I 1804	W-TRNSP	BARO 1014.3	CLD-AMT 1	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH 8	WAVES 1 00X0	AIR T 17.7	VIS 9
CONS. NO 063	MONTH 8	MXSAMPD 00	WAVES 2 00X0	WET B 13.3	STN 044
LAT 66-562N	DAY 06	NO.DPTH 2	WND-DIR CALM	WW-CODE 02	
LON 119-417W	HR 19.0	W-COLOR	WND-FCE 00	CLD-TPE 8	
MARSD SQ 228	C/I 1804	W-TRNSP	BARO 1014.3	CLD-AMT 1	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH 55	WAVES 1 1322	AIR T 10.2	VIS 8
CONS. NO 064	MONTH 8	MXSAMPD 00	WAVES 2 00X0	WET B 08.8	STN 046
LAT 66-532N	DAY 07	NO.DPTH 1	WND-DIR 130	WW-CODE 02	
LON 119-565W	HR 15.0	W-COLOR	WND-FCE 02	CLD-TPE 8	
MARSD SQ 228	C/I 1804	W-TRNSP	BARO 1012.3	CLD-AMT 7	HW

O B S E R V E D

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GMT  DEPTH  T E M P  S A L  OXYGEN  SGMT  SOUND  PO4 -P- NO2 NO3 SIO  PH
150  0000    0420

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C-REF-NO 002	YR 1964	DEPTH	60	WAVES 1 00X0	AIR T 14.9	VIS
CONS. NO 065	MONTH 8	MXSAMPD	00	WAVES 2 00X0	WET B 11.1	STN 049
LAT 66-433N	DAY 08	NO.DPTH	3	WND-DIR 130	WW-CODE 02	
LON 119-548W	HR 04.0	W-COLOR		WND-FCE 01	CLD-TPE 7	
MAKSD SQ 228	C/I 1804	W-TRNSP	13	BARO 1007.3	CLD-AMT 7	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH 32	WAVES 1 00X0	AIR T 21.1	VIS
CONS. NO 066	MONTH 8	MXSAMPD 00	WAVES 2 XX	WET B 14.9	STN 048
LAT 66-436N	DAY 08	NO.DPTH 2	WND-DIR	WW-CODE 02	
LON 119-538W	HR 18.5	W-COLOR	WND-FCE	CLD-TPE 8	
MARSD SQ 228	C/I 1804	W-TRNSP	BARO 1006.3	CLD-AMT 7	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH 4	WAVES 1	XX	AIR T 21.1	VIS
CONS. NO 067	MONTH 8	MXSAMPD 00	WAVES 2	XX	WET B 14.9	STN 047
LAT 66-433N	DAY 08	NO.DPTH 2	WND-DIR		WW-CODE	
LON 119-531W	HR 20.0	W-COLOR	WND-FCE		CLD-TPE 7	
MARSD Q3 228	C/I 1804	W-TRNSP	BARO 1006.3		CLD-AMT 7	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH 5	WAVES 1 00X0	AIR T 21.1	VIS
CONS. NO 068	MONTH 8	MXSAMPD 00	WAVES 2 00X0	WET B 14.9	STN 050
LAT 66-428N	DAY 08	NO.DPTH 1	WND-DIR	WW-CODE 02	
LON 119-537W	HR 20.5	W-COLOR	WND-FCE	CLD-TPE 7	
MARSD SQ 228	C/I 1804	W-TRNSP	BARO 1006.3	CLD-AMT 7	HW

O B S E R V E D

GMT DEPTH T E M P S A L OXYGEN SGMT SOUND PO4 -P- NO2 NO3 SIO PH

205 0000 0940

U-REF-NO 002	YR 1964	DEPTH	55	WAVES 1	1321	AIR T	11.1	VLS
CONS. NO 069	MONTH 8	MXSAMPD	00	WAVES 2	00X0	WET B	09.9	STN 051
LAT 36-312N	DAY 09	NO.DPTH	1	WND-DIR	130	WW-CGDE	02	
LONG 120-364W	HR 16.0	W-COLOR		WND-FCE	01	CLD-TPE	7	
MAXSD SQ 229	C/I 1804	W-TRNSP		BARO	1006.3	CLD-AMT	7	

OBSERVED

GMT DEPTH T E M P S A L OXYGEN SGMT SOUND PO4 -P- NO2 NO3 SIO PH

160 0000 0500

C-REF-NO 002	YR 1964	DEPTH 128	WAVES 1 0933	AIR T 08.6	VIS
CONS. NO 070	MONTH 8	MXSAMPD 00	WAVES 2 XX	WET B 08.3	STN 052
LAT 66-235N	DAY 09	NO.DPTH 1	WND-DIR 090	WW-CODE 02	
LON 120-390W	HR 10.0	W-COLOR	WNC-FCE 04	CLD-TPE 6	
MARSD SQ 229	C/I 1804	W-TRNSP	BARO 1007.3	CLD-AMT 6	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH	201	WAVES 1 00X0	AIR T 08.6	VIS 8
CONS. NO 071	MONTH 8	MXSAMPD	02	WAVES 2 0732	WET B 06.6	STN 053
LAT 66-033N	DAY 09	NO.DPTH	2	WND-DIR 070	WW-CODE 02	
LON 119-096W	HR 23.0	W-COLOR		WND-FCE 02	CLD-TPE 8	
MAKSD SQ 228	C/I 1804	W-TRNSP		BARO 1008.3	CLD-AMT 5	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH 14	WAVES 1 COXO	AIR T	VIS
CONS. NO 072	MONTH 8	MXSAMPD 00	WAVES 2 OOXO	WET B	STN 054
LAT 66-028N	DAY 10	NO.DPTH 6	WND-DIR 040	WW-CODE 02	
LON 118-008W	HR 17.0	W-COLOR	WND-FCE 02	CLD-TPE 8	
MARSD SQ 228	C/I 1804	W-TRNSP 08	BARO	CLD-AMT 1	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH 441	WAVES 1 00X0	AIR T 10.5	VIS
CONS. NO 073	MONTH 8	MXSAMPD 04	WAVES 2 00X0	WET B 09.1	STN 002
LAT 66-045N	DAY 11	NO.DPTH 14	WND-DIR 160	WW-CODE 02	
LON 118-132W	HR 17.0	W-COLOR	WND-FCE 01	CLD-TPE 6	
MARSD SQ 228	C/I 1804	W-TRNSP 21	BARO 1020.3	CLD-AMT 2	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	PO4 -P-	NO2	NO3	SIO	PH
205	0000	0377		938							
205	0019	0371		935							
188	0048	0365		929							
188	0106	0364		926							
205	0106	0364		933							
188	0155	0365		925							
180	0201	0363		899							
170	0250	0363		900							
180	0280	0360		900							
170	0299	0359		894							
180	0328	0357		888							
170	0347	0357		889							
170	0396	0357		868							
180	0396	0356		858							

C-REF-NO 002	YR 1964	DEPTH 56	WAVES 1 1320	AIR T 17.2	VIS
CUN. NO 074	MONTH 8	MXSAMPD 01	WAVES 2 00X0	WET B 11.1	STN 055
LAT 66-028N	DAY 12	NO.DPTH 5	WND-DIR 130	WW-CODE 02	
LON 118-008W	HR 17.5	W-COLOR	WND-FCE 02	CLD-TPE 8	
MARSD SQ 228	C/I 1804	W-TRNSP 18	BARO 1015.3	CLD-AMT 1	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH 107	WAVES 1 1321	AIR T 21.1	VIS
CONS. NO 075	MONTH 8	MXSAMPD 01	WAVES 2 00X0	WET B 12.7	STN 056
LAT 66-050N	DAY 12	NO.DPTH 5	WND-DIR 130	WW-CODE 02	
LON 118-032W	HR 22.5	W-COLOR	WND-FCE 02	CLD-TPE 8	
MARSD SQ 228	C/I 1804	W-TRNSP	BARO 1014.3	CLD-AMT 1	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH 110	WAVES 1 0434	AIR T 13.6	VIS
CONS. NO 076	MONTH 8	MXSAMPD 00	WAVES 2 00X0	WET B 11.1	STN 004
LAT 65-370N	DAY 13	NO.DPTH 1	WND-DIR 040	WW-CODE 02	
LON 121-540W	HR 18.0	W-COLOR	WND-FCE 06	CLD-TPE 8	
MARSD SQ 229	C/I 1804	W-TRNSP	BARO 1008.3	CLD-AMT 1	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH 82	WAVES 1 0433	AIR T 12.4	VIS
CONS. NO 077	MONTH 8	MXSAMPD 00	WAVES 2 00X0	WET B 09.4	STN 057
LAT 65-131N	DAY 13	NO.DPTH 1	WND-DIR 040	WW-CODE 02	
LON 122-548W	HR 23.0	W-COLOR	WND-FCE 95	CLD-TPE 9	
MAKSD SQ 229	C/I 1804	W-TRNSP	BARO 1005.3	CLD-AMT 1	HW

O B S E R V E D

GMT DEPTH T E M P S A L OXYGEN SGMT SOUND PO4 -P- NO2 NO3 SID PH
230 0000 0420

C-REF-NO 002	YR 1964	DEPTH 6	WAVES 1 COXO	AIR T 07.7	VIS
CONS. NO 078	MONTH 8	MXSAMPD 00	WAVES 2 OOXO	WET B 07.7	STN 058
LAT 65-082N	DAY 15	NO.DPTH 1	WND-DIR CALM	WW-CODE 60	
LUN 123-278W	HR 15.5	W-COLOR	WND-FCE 00	CLD-TPE 7	
MARSD SQ 229	C/I 1804	W-TRNSP	BARO 1002.3	CLD-AMT 8	HW

O B S E R V E D

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GMT  DEPTH  T E M P  S A L  OXYGEN  SGMT  SOUND  PO4 -P- NO2 NO3 SIO  PH
155  0000    0810

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C-REF-NO 002	YR 1964	DEPTH 68	WAVES 1 00X0	AIR T 08.0	VIS
CONS. NO 079	MONTH 8	MXSAMPD 01	WAVES 2 00X0	WET B 08.0	STN 059
LAT 65-038N	DAY 15	NO.DPTH 4	WND-DIR CALM	WW-CODE 01	
LON 122-220W	HR 19.0	W-COLOR	WND-FCE 00	CLD-TPE 6	
MARSD QO 229	C/I 1804	W-TRNSP 16	BARO 1002.3	CLD-AMT 3	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH	2	WAVES 1 00X0	AIR T 12.2	VIS
CONS. NO 080	MONTH 8	MXSAMPD	00	WAVES 2 00X0	WET B 11.1	STN 060
LAT 64-567N	DAY 15	NO.DPTH	2	WND-DIR CALM	WW-CODE 01	
LON 122-020W	HR 23.8	W-COLOR		WND-FCE 00	CLD-TPE 8	
MARSD SQ 229	C/I 1804	W-TRNSP		BARO 1012.8	CLD-AMT 2	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH 4	WAVES 1 COXO	AIR T 12.2	VIS
CONS. NO 081	MONTH 8	MXSAMPD 00	WAVES 2 COXO	WET B 12.2	STN 061
LAT 64-572N	DAY 16	NO.DPTH 2	WND-DIR CALM	WW-CODE 01	
LON 122-048W	HR 02.0	W-COLOR	WND-FCE 00	CLD-TPE 8	
MARSD SQ 229	C/I 1804	W-TRNSP	BARO 1012.8	CLD-AMT 2	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH 2	WAVES 1 00X0	AIR T 12.2	VIS
EDNS. NO 002	MONTH 8	MASARPO 00	WAVES 2 00X0	WET B 11.1	STN 062
LAT 64-578N	DAY 16	NO.DPTH 1	WND-DIR CALM	WW-CODE	
LON 122-111W	HR 04.0	W-COLOR	WND-FCE 00	CLO-TPE 8	
MARSD SQ 229	C/I 1804	W-TRNSP	BARO 1012.8	CLO-AMT 2	HW

O B S E R V E D

GMT DEPTH TEMP SAL OXYGEN SGMT SOUND PD4 -P- NO2 NO3 SIO PH
040 0000 1242

C-REF-NO 002	YR 1984	DEPTH	82	WAVES 1	1122	AIR 7	13.3	VIS	
CUNS. NO 083	MONTH 8	MXSAMPD	00	WAVES 2	00X0	WET B	09.9	STN	063
LAT 65-053N	DAY 16	NO.DPTH	1	WND-DIR	110	WW-CODE	02		
LON 122-081W	HR 19.2	W-COLOR		WND-FCE	04	CLD-TPE			
MARSD SQ 229	C/I 1804	W-TRNSP		BARO	1006.3	CLD-AMT		HW	

O B S E R V E D

GMT DEPTH TEMP SAL OXYGEN SGMT SOUND PO4 -P- NO2 NO3 SID PH
192 0000 0790

C-REF-NO 002	YR 1964	DEPTH 104	WAVES 1 1122	AIR T 12.2	VIS
CONS. NO 084	MONTH 8	MXSAMPD 00	WAVES 2 00X0	WET B 09.4	STN 064
LAT 65-101N	DAY 16	NO-DPTH 1	WND-DIR 160	WW-CODE	
LON 121-513W	HR 20.2	W-COLOR	WND-FCE 04	CLD-TPE 8	
MARSD SQ 229	C/I 1804	W-TRNSP	BARO 1006.8	CLD-AMT 2	HW

OBSERVED

[illegible]

C-REF-NO 002	YR 1964	DEPTH 20	WAVES 1 00X0	AIR T 19.9	VIS
CONS. NO 086	MONTH 8	MXSAMPD 00	WAVES 2 00X0	WET B 13.3	STN 066
LAT 65-124N	DAY 16	NO.DPTH 2	WND-DIR 110	WW-CODE	
LOU 121-377W	HR 23.9	W-COLOR	WND-FCE 03	CLD-TPE 0	
MARSD SQ 229	C/I 1804	W-TRNSP	BARO 1006.8	CLD-AMT 3	HW

O B S E R V E D

[illegible]

U-REF-NO 002	YR 1966	DEPTH 4	WAVES 1 00X0	AIR T 19.9	VIS
CONS. NO 067	MONTH 8	MXSAMPD 00	WAVES 2 00X0	WET B 13.3	STN 067
RAF 05-133N	DAY 17	NO.DPTH 2	WND-DIR 110	WW-CODE 02	
LUN 121-478W	HR 00.2	W-COLOR	WND-FCE 03	CLD-TPE 0	
MARKD SW 229	C/L 1804	W-TRNSP	BARO 1006.8	CLD-AMT 7	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH	5	WAVES 1	XX	AIR T	18.8	VIS
CONS. NO 088	MONTH 8	MXSAMPD	00	WAVES 2	XX	WET B	13.8	STN 068
LAT 65-201N	DAY 17	NO.DPTH	1	WND-DIR	360	WW-CODE	02	
LON 121-328W	HR 17.7	W-COLOR		WND-FCE	02	CLD-TPE	8	
MARSD SQ 229	C/I 1804	W-TRNSP		BARO	1008.3	CLD-AMT	4	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH 42	WAVES 1 00X0	AIR T 13.6	VIS
CONS. NO 089	MONTH 8	MXSAMPD 00	WAVES 2 00X0	WET B 10.8	STN 069
LAT 65-310N	DAY 17	NO.DPTH 4	WND-DIR 040	WW-CODE	
LON 121-138W	HR 19.8	W-COLOR	WND-FCE 01	CLD-TPE 8	
MARSD SQ 229	C/I 1804	W-TRNSP 13	BARO 1008.3	CLD-AMT 6	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH	31	WAVES 1	COXO	AIR T	VIS
CONS. NO 090	MONTH 8	MXSAMPD	00	WAVES 2	COXO	WET B	STN 070
LAT 65-307N	DAY 18	NO.DPTH	2	WNC-DIR		WW-CODE	
LUN 121-093W	HR 03.0	W-COLOR		WND-FCE		CLD-TPE	
MARSD SQ 229	C/I 1804	W-TRNSP	13	BARO		CLD-AMT	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH	10	WAVES 1	XX	WIND 1	VIS
CONS. NO 091	MONTH 8	MXSAMPD	00	WAVES 2	XX	WIND 2	STN 071
LAT 65-306N	DAY 18	NO.DPTH	2	WND-DIR		WV-200L	
LUN 121-120W	HR 03.5	W-COLOR		WND-FCE		CLD-TPC	
MARSD SQ 229	CZI 1804	W-TRNSP		BARO		CLD-AMT	HW

OBSERVED

[illegible]

C-REF-NO 002	YR 1964	DEPTH 6	WAVES 1 00X0	AIR T 18.3	VIS
CONS. NO 092	MONTH 8	MXSAMPD 00	WAVES 2 00X0	WET B 13.8	STN 072
LAT 65-300N	DAY 18	NO.DPTH 1	WND-DIR 040	WW-CODE 02	
LON 121-088W	HR 14.0	W-COLOR	WND-FCE 02	CLD-TPE 8	
MARSD SQ 229	C/I 1804	W-TRNSP	BARO 1004.3	CLD-AMT 2	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH 86	WAVES 1 00X0	AIR T 12.2	VIS
CONS. NO 093	MONTH 8	MXSAMPD 01	WAVES 2 0422	WET B 10.2	STN 073
LAT 65-346N	DAY 18	NO.DPTH 5	WND-DIR 040	WW-CODE 60	
LON 121-098W	HR 16.5	W-COLOR	WND-FCE 01	CLD-TPE 9	
MARSD SQ 229	C/I 1804	W-TRNSP	BARO 1003.8	CLD-AMT 7	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH 113	WAVES 1 00X0	AIR T 12.2	VIS
CONS. NO 094	MONTH 8	MXSAMPD 01	WAVES 2 0422	WET B 10.2	STN 074
LAT 65-382N	DAY 18	NO.DPTH 4	WND-DIR 040	WW-CODE 60	
LON 121-098W	HR 17.0	W-COLOR	WND-FCE 01	CLD-TPE 9	
MARSD SQ 229	C/I 1804	W-TRNSP	BARO 1003.8	CLD-AMT 7	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH 93	WAVES 1 0921	AIR T 09.1	VIS
CONS. NO 095	MONTH 8	MXSAMPD 00	WAVES 2 XX	WET B 08.3	STN 075
LAT 65-392N	DAY 18	NO.DPTH 1	WND-DIR 110	WW-CODE	
LON 120-429W	HAY 19.0	W-COLOR	WND-FCE 03	CLD-TPE 1	
MARSD SQ 229	C/I 1804	W-TRNSP	BARO 1002.3	CLD-AMT 7	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH	91	WAVES 1 C921	AIR T	11.1	VIS
CONS. NO 096	MONTH 8	MXSAMPD	00	WAVES 2 XX	WET B	09.9	STN 076
LAT 65-397N	DAY 18	NO.DPTH	1	WND-DIR 110	WW-CODE	01	
LUN 120-242W	HR 20.0	W-COLOR		WNC-FCE 02	CLD-TPE	0	
MARSD SQ 229	C/I 1804	W-TRNSP		BARO 1002.3	CLD-AMT	4	HW

O B S E R V E D

GMT DEPTH T E M P S A L OXYGEN SGMT SOUND PO4 -P- NO2 NO3 SIO PH

200 0000 0600

C-REF-NO 002	YR 1964	DEPTH	2	WAVES 1	XX	AIR T	VIS
CONS. NO 098	MONTH 8	MXSAMPD	00	WAVES 2	XX	WET B	STN 078
LAT 65-362N	DAY 19	NO.DPTH	1	WNC-DIR		WW-CODE	
LUN 119-562W	HR 00.5	W-COLOR		WNC-FCE		CLD-TPE	
MARSD SQ 228	C/I 1804	W-TRNSP		BARO		CLD-AMT	HW

O B S E R V E D

GMT DEPTH T E M P S A L CXYGEN SGMT SOUND P04 -P- NO2 NO3 SIO PH
005 0000 0990

C-REF-NO 002	YR 1964	DEPTH 2	WAVES 1 1133	AIR 7 13.8	VIS
CUNSL NO 000	MONTH 8	MXSAMPD 00	WAVES 2 XX	WET 8 12.4	STN 095
EAT 65-380N	DAY 19	NO.DPTH 1	WND-DIR 110	WW-CODE 03	
LOC 119-501W	HR 17.0	W-COLOR	WND-FCE 06	CLD-TPE 7	
PARSD SQ 228	C/I 1804	W-TRNSP	BARO 981.3	CLD-AMT 2	HW

O B S E R V E D

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GMT DEPTH TEMP SAL OXYGEN SGMT SOUND PO4 -P- NO2 NC3 SIO PH
170 3000 1100

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C-REF-NO 002	YR 1964	DEPTH 8	WAVES 1 3122	AIR T 09.9	VIS
CONS. NO 100	MONTH 8	MXSAMPD 00	WAVES 2 XX	WET B 09.4	STN 080
LAT 65-279N	DAY 20	NO.DPTH 2	WND-DIR 310	WW-CODE 02	
LON 119-464W	HR 22.7	W-COLOR	WND-FCE 02	CLD-TPE 7	
MARSD SQ 228	C/I 1804	W-TRNSP 08	BARO 998.3	CLD-AMT 8	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH 4	WAVES 1 00X0	AIR T 09.9	VIS
CONS. NO 101	MONTH 8	MXSAMPD 00	WAVES 2 00X0	WET B 09.4	STN 079
LAT 65-285N	DAY 20	NO.DPTH 2	WNC-DIR 310	WW-CODE 02	
LON 119-455W	HR 23.0	W-COLOR	WND-FCE 02	CLD-TPE 8	
MARSD SQ 228	C/I 1804	W-TRNSP 02	BARO 998.3	CLD-AMT 8	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH 12	WAVES 1 3121	AIR 7 11.1	VIS 9
CUNS. NO 102	MONTH 8	MXSAMPD 00	WAVES 2 00X0	WET 8 09.4	STN 082
LAT 65-242N	DAY 21	NO.DPTH 2	WND-DIR 310	WW-CODE 01	
LON 119-401W	HR 17.0	W-COLOR	WND-FCE 01	CLD-TPE 1	
MARSD SQ 228	C/I 1804	W-TRNSP 09	BARO 1005.3	CLD-AMT 4	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH	42	WAVES 1	COCO	AIR T	10.2	VI
CONS. NO 103	MONTH 8	WXSAMPD	00	WAVES 2	COKO	WTT 1		12V 15V
LAT 65-239N	DAY 21	NO.DPTH	4	WNC-DIR	310	WW-CODE	03	
LON 119-542W	HR 19.0	W-COLOR		WNC-FCE	01	CLD-TPE	1	
MARSD SQ 228	C/T 1804	W-TRNSP		BARO	1006.3	CELESTMT	-	

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	WIND	POW	WAVE
190	0000	0896						
190	0010	0663						
190	0020	0646						
190	0035	0618						

C-REF-NO 002	YR 1964	DEPTH 3	WAVES 1 00X0	AIR T 09.4	VIS
CONS. NO 104	MONTH 8	MXSAMPD 00	WAVES 2 00X0	WET B 07.2	STN 084
LAT 65-242N	DAY 22	NO.DPTH 1	WND-DIR 310	WW-CODE 03	
LON 120-230W	HR 15.0	W-COLOR	WND-FCE 04	CLD-TPE 9	
MARSD SQ 229	C/I 1804	W-TRNSP	BAKO 1012.8	CLD-AMT 3	HW

O B S E R V E D

GMT DEPTH T E M P S A L OXYGEN SGMT SOUND P04 -P- NO2 NO3 SIO PH

150 0000 0720

C-REF-NO 002	YR 1984	DEPTH 4	WAVES 1 COXO	AIR 1 11.4	WIND 11.4
CONS. NO 105	MONTH 8	MXSAMPD 00	WAVES 2 COXO	WET B 08.0	STW 085
LAT 65-100N	DAY 22	NO.DPTH 1	WNC-DIR 220	WW-CODE	
LON 120-141W	HR 19.0	W-COLOR	WNC-FCE 02	CLD-TPE	
MAKSD SQ 229	C/I 1804	W-TRNSP 02	BARO 1015.3	CLD-AMT	

O B S E R V E D

[illegible]

Y-RF-ND 002	YR 1964	DEPTH	28	WAVES 1	XX	AIR T	VIS
CUNS. NO 106	MONTH 8	MXSAMPD	00	WAVES 2	XX	WET B	STN 086
LAT 65-241N	DAY 23	NO-DPTH	2	WND-DIR		WW-CODE	
LON 120-219W	HR 03.2	W-COLOR		WND-FCE		CLD-FPE	
MARSD QF 229	C/I 1804	W-TRNSP		BARO		CLD-AMT	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH 3	WAVES 1 COXO	AIR T 18.3	VIL
CONS. NO 107	MONTH 8	MXSAMPD 00	WAVES 2 OOXO	WET B 13.8	STN 007
LAT 04-592N	DAY 24	NO.DPTH 1	WND-DIR CALM	WW-CODE 02	
LON 121-110W	HR 00.5	W-COLOR	WND-FCE 00	CLD-TPE 8	
MARSD SQ 229	C/I 1804	W-TRNSP	BARO 1012.3	CLD-AMT 1	44

O B S E R V E D

GMT DEPTH TEMP SAL OXYGEN SGMT SOUND PO4 -P- NO2 NO3 SID PH

005 0000 1250

C-REF-NO 002	YR 1964	DEPTH 23	WAVES 1 0421	AIR T 18.3	VIS
CONS. NO 108	MONTH 8	MXSAMPD 00	WAVES 2 00X0	WET B 13.8	STN 088
LAT 64-546N	DAY 24	NO.DPTH 3	WND-DIR 040	WW-CODE 02	
LON 121-161W	HR 02.5	W-COLOR	WND-FCE 01	CLD-TPE 8	
MAKSD SQ 229	C/I 1804	W-TRNSP	BARO 1012.3	CLD-AMT 1	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH 6	WAVES 1 0421	AIR T 18.3	VIS
CONS. NO 109	MONTH 8	MXSAMPD 00	WAVES 2 00X0	WET B 13.8	STN 089
LAT 64-570N	DAY 24	NO.DPTH 2	WNC-DIR 040	WW-CODE 02	
LON 121-168W	HR 04.5	W-COLOR	WND-FCE 01	CLD-TPE 8	
MARSD SQ 229	C/I 1804	W-TRNSP	BARO 1012.3	CLD-AMT 1	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH	3	WAVES 1 00X0	AIR T 12.7	VIS
CONS. NO 110	MONTH 8	MXSAMPD	00	WAVES 2 00X0	WET B 10.5	STN 087
LAT 64-592N	DAY 24	NO.DPTH	1	WND-DIR 040	WW-CODE 02	
LON 121-110W	HR 15.0	W-COLOR		WND-FCE 01	CLD-TPE	
MARSD SQ 229	C/I 1804	W-TRNSP		BARO 1011.3	CLD-AMT	HW

O B S E R V E D

GMT DEPTH TEMP SAL OXYGEN SGMT SOUND PO4 -P- NO2 NO3 SIO PH
150 0000 1140

C-REF-NO 002	YR 1964	DEPTH 3	WAVES 1	XX	AIR 1	11.4	WIND
CONS. NO 111	MONTH 8	MXSAMPD 00	WAVES 2	XX	WET 8	09.4	SW 0.7
LAT 64-592N	DAY 25	NO.DPTH 1	WNC-DIR	040	W-CODE	01	
LEN 121-110W	HR 18.5	W-COLOR	WND-FCE	04	CLO-TPE	0	
MARSD SQ 229	C/I 1804	W-TRNSP	BARO	996.8	CLO-AMT	3	

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	PO4 -P-	NO2	NO3	SIO
185	0000	1210								

C-REF-NO 002	YR 1964	DEPTH	27	WAVES 1 00X0	AIR T 07.7	VIS
CONS. NO 112	MONTH 8	MXSAMPD	00	WAVES 2 0421	WET B 07.2	STN 091
LAT 64-577N	DAY 26	NO.DPTH	5	WND-DIR 070	WW-CODE	
LON 121-042W	HR 14.0	W-COLOR		WND-FCE 02	CLD-TPE 0	
MARKSD SQ 229	C/I 1804	W-TRNSP		EARO 996.3	CLD-AMT 4	HW

OBSERVED

[illegible]

C-REF-NO 002	YR 1964	DEPTH	51	WAVES 1 COXO	AIR 7	07.7	VIS
CONS. NO 113	MONTH 8	MXSAMPD	00	WAVES 2 0421	WET B	07.2	STN 092
LAT 65-012N	DAY 26	NO.DPTH	6	WND-DIR 070	WW-CODE	01	
LON 121-420W	HR 15.0	W-COLOR		WND-FCE 02	CLD-TPE		
MARSD SQ 229	C/I 1804	W-TRNSP		BARO 996.3	CLD-AMT		Hw

O B S E R V E D

GMT DEPTH TEMP SAL CXYGEN SGMT SOUND PO4 -P- NO2 NO3 SiO PH

150	0000	1000
150	0005	0950
150	0025	0900
150	0030	0750
150	0040	0500
150	0050	0480

C-REF-NO 002	YR 1964	DEPTH	57	WAVES 1 COXO	AIR T		VIS
CGNS. NO 114	MONTH 8	MXSAMPD	01	WAVES 2 0421	WET B		STN 093
LAT 65-097N	DAY 26	NO.DPTH	5	WNC-DIR 070	WW-CODE	02	
LON 121-420W	HR 16.0	W-COLOR		WNC-FCE 02	CLD-TPE	0	
MARSD SQ 229	C/I 1804	W-TRNSP		BAKO 996.3	CLD-AMT	2	Hw

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH 35	WAVES 1	XX	AIR T	VIS
CONS. NO 115	MONTH 8	MXSAMPD 00	WAVES 2	XX	WET B	STN 094
LAT 65-149N	DAY 26	NO.DPTH 5	WNC-DIR		WW-CODE	
LDN 170-222W	HR 17.0	W-COLOR	WND-FCE		CLO-TPE	
MARSQ SQ 229	C/I 1804	W-TRNSP	BARO		CLO-AMT	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH 100	WAVES 1	XX	AIR T	VIS
CONS. NO 116	MONTH 8	MXSAMPD 01	WAVES 2	XX	WET B	STN 096
LAT 65-220N	DAY 26	NO.DPTH 5	WND-DIR		WW-CGDE	
LON 120-182W	HR 18.0	W-COLOR	WND-FCE		CLD-TPE	
MARSD SQ 229	C/I 1804	W-TRNSP	BARO		CLD-AMT	HW

OBSERVED

[illegible]

1-REF-NO 002	YR 1964	DEPTH	33	WAVES 1	XX	AIR T	VIS
CONS. NO 117	MONTH 8	MXSAMPD	00	WAVES 2	XX	WET S	TT 0.47
LAT 33-357N	DAY 26	NO.DPTH	4	WNC-DIR		WW-CODE	
LONG 120-205W	HR 21.0	W-COLOR		WNC-FCE		CLD-TPE	
PARSD SQ 229	C/I 1804	W-TRNSP		BARO		CLD-AMT	HW

O B S E R V E D

SMI	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	PO4 -P-	NO2	NO3	SIG
210	0000	0675								
210	0005	0600								
210	0025	0500								
210	0033	0440								

C-REF-NO 002	YR 1964	DEPTH 420	WAVES 1 00X0	AIR T 13.3	VIS
CONS. NO 118	MONTH 8	MXSAMPD 04	WAVES 2 00X0	WET B 11.1	STN 002
LAT 66-045N	DAY 27	NO. DPTH 12	WNC-DIR CALM	WW-CODE 01	
LON 118-132W	HR 19.0	W-COLOR	WND-FCE 00	CLD-TPE 6	
MARSD SQ 228	C/I 1804	W-TRNSP 22	BARO 1000.3	CLD-AMT 4	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH 3	WAVES 1 00X0	AIR T 14.4	VIS
CONS. NO 120	MONTH 8	MXSAMPD 00	WAVES 2 00X0	WET B 11.6	STN 001
LAT 66-051N	DAY 28	NO. DPTH 1	WIND-DIR CALM	WW-CODE 03	
LON 118-017W	HR 02.5	W-COLOR	WIND-FCE 00	CLD-TPE 7	
MARSD SQ 228	C/I 1804	W-TRNSP	BARO 1002.3	CLD-AMT 8	Hw

O B S E R V E D

025 0000 0856

C-REF-NO 002	YR 1964	DEPTH	70	WAVES 1 COXO	AIR 1	19.4	VIS
CONS. NO 121	MONTH 8	MXSAMPD	00	WAVES 2 COXO	WET 5	11.6	SIN 055
LAT 06-023N	DAY 29	NO.DPTH	6	WND-DIR CALM	WW-CODE	03	
LONG 118-00HW	HR 03.0	W-COLOR		WND-FCE 00	CLD-TPE	7	
MARSD SQ ZZR	C/I 1964	W-TRNSP		BARO 1002.3	CLD-AMI	8	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH 72	WAVES 1 00X0	AIR T 14.4	VIS
CUNS. NO 122	MONTH 8	MXSAMPD 01	WAVES 2 00X0	WET B 11.1	SWN 012
LAT 66-050N	DAY 29	NO. DPTH 5	WND-DIR CALM	WW-CODE 03	
LONG 118-035W	HR 03.5	W-COLOR	WND-FCE 00	CLD-TPE 7	
MARSD SQ 228	C/I 1804	W-TRNSP	BARO 1002.3	CLD-AMT 8	Hw

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH 225	WAVES 1 COXO	AIR T 06.1	VIS
CONS. NO 123	MONTH 8	MXSAMPD 02	WAVES 2 COXO	WET B 06.1	STN 098
LAT 06-035N	DAY 29	NO.DPTH 5	WND-DIR 310	WW-CODE 02	
LUN 110-530W	HR 18.0	W-COLOR	WND-FCE 01	CLD-TPE	
MORSE S 22F	C/I 1804	W-TRNSP	BARO 1001.8	CLD-AMT	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH 164	WAVES 1	XX	AIR T	VIS
CONS. NO 124	MONTH 8	MXSAMPD 01	WAVES 2	XX	WET B	STN 099
LAT 66-127N	DAY 29	NO.DPTH 5	WNC-DIR		WW-CODE 02	
LN 119-290W	HR 20.0	W-COLOR	WNC-FCE		CLD-TPE	
MARSD SQ 228	C/I 1804	W-TRNSP	BARO		CLD-AMT	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH 66	WAVES 1 3122	AIR T 08.3	VIS
CONS. NO 125	MONTH 8	MXSAMPD 00	WAVES 2 00X0	WET B 07.7	STN 100
LAT 66-242N	DAY 29	NO.DPTH 4	WNC-DIR 310	WW-CODE 02	
LON 120-362W	HR 23.9	W-COLOR	WNC-FCE 02	CLD-TPE 6	
MARSD SQ 229	C/I 1804	W-TRNSP	BARO 1004.8	CLD-AMT 3	Hw

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH 60	WAVES 1 COX0	AIR T 04.4	VIS
CONS. NO 126	MONTH 8	MXSAMPD 00	WAVES 2 00X0	WET B 03.8	STN 049
LAT 66-433N	DAY 30	W-C-DPTH 1	WNC-DIR 040	WW-CODE	
LUN 119-550W	HR 16.0	W-COLOR	WNC-FCE 03	CLD-TPE 7	
MARSD SQ 228	C/I 1804	W-TRNSP	BAKO 1011.3	CLD-AMT 8	HW

OBSERVED

GMT DEPTH TEMP SAL OXYGEN SGMT SOUND PQ4 -P- NO2 NO3 SIO PH
160 0000 0743

C-REF-NO 002	YR 1964	DEPTH 88	WAVES 1 00X0	AIR T 04.4	VIS
CONS. NO 127	MONTH 8	MXSAMPD 01	WAVES 2 00X0	WET B 03.8	STN 040
LAT 66-520N	DAY 30	NO.DPTH 6	WNC-DIR 040	WW-CCDE 02	
LOX 119-517W	HR 17.5	W-COLOR	WNO-FCE 03	CLD-TPE 7	
MARSD SQ 228	C/I 1804	W-TRNSP 10	BARO 1011.3	CLD-AMT 8	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH	40	WAVES 1 COX0	AIR T	04.7	VIS
CONS. NO 128	MONTH 8	MXSAMPD	00	WAVES 2 00X0	WET B	03.8	STN 103
LAT 66-508N	DAY 30	NO.DPTH	4	WNC-DIR 040	WW-CODE	02	
LON 119-500W	HR 18.0	W-COLOR		WNC-FCE 02	CLD-TPE	7	
MARSD SQ 228	C/I 1804	W-TRNSP		BARO 1012.3	CLD-AMT	8	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH	14	WAVES 1	COXO	AIR T	07.7	VIS
CUNV- NO 129	MONTH 8	MAXSAMPD	00	WAVES 2	COXO	WET S	06.1	STN 050
LAT 36-428N	DAY 30	NO.DPTH	2	WNL-DIR	040	WW-CODE	02	
LONG 119-517W	HR 21.2	W-COLOR		WNL-FLE	01	CLD-TPE	1	
WARSU SC 22H	CYT 1804	W-TRNSP		BARO	1013.3	CLD-AMT	2	HW

O B S E R V E D

GMT	DEPTH	T	M	P	S	A	L	OXYGEN	SGMT	SOUND	PO4	-P-	NO2	NO3	SIG	PH
212	0000							0785								
212	0013							0616								

C-REF-NO 002	YR 1964	DEPTH 5	WAVES 1	XX	AIR T 07.7	VIS
CONS. NO 130	MONTH 8	MXSAMPD 00	WAVES 2	XX	WET B 06.1	STN 101
LAT 66-413N	DAY 30	NO.DPTH 2	WND-DIR 040	WD-CODE 02		
LON 119-528W	HR 23.0	W-COLOR	WND-FCE 01	CLD-TPE 1		
MARSD SQ 228	C/I 1804	W-TRNSP	BARO 1013.3	CLD-AMT 2	HW	

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH 12	WAVES 1 XX	AIR T 07.7	VIS
CENS. NO 131	MONTH 8	MXSAMPD 00	WAVES 2 XX	WET B 06.1	STN 102
LAT 66-406N	DAY 30	NO.DPTH 2	WNC-DIR 040	WW-CODE 02	
LUN 119-537W	HR 23.5	W-COLOR	WNC-FCE 01	CLD-FRE 1	
MARSD SQ 228	C/I 1804	W-TRNSP	BAKO 1013.5	CLD-AMT 2	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH 75	WAVES 1 1821	AIR T 09.4	VIS
CONS. NO 132	MONTH 8	MXSAMPD 01	WAVES 2 XX	WET B 07.2	STN 104
LAT 66-405N	DAY 31	NO.DPTH 6	WND-DIR 180	WW-CODE 03	
LON 120-250W	HR 18.0	W-COLOR	WND-FCE 03	CLD-TPE 3	
MARSD SQ 229	C/I 1804	W-TRNSP	BARO 1007.5	CLD-AMT 6	HW

O B S E R V E D

[illegible]

C-REF-NO 002 YR 1964 DEPTH 110 WAVES 1 1822 AIR T 05.5 VIS
 CONS. NO 133 MONTH 8 MXSAMPD 01 WAVES 2 00X0 WET B 04.9 STN 106
 LAT 66-358N DAY 31 NO.DPTH 4 WNC-LIR 180 WW-CODE 03
 LON 121-052W HR 20.0 W-COLOR WNC-FCE 04 CLD-TPE 7
 MARSD SQ 229 C/I 1804 W-TRNSP BARD 1004.3 CLD-AMT 7 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	PO4	-P-	NO2	NO3	SIC	PH
200	0000	0387										
200	0020	0390										
200	0040	0400										
200	0100	0360										

#TIME-DISTANCE CHECK FAILED

C-REF-NO 002	YR 1964	DEPTH 84	WAVES 1 1823	AIR T 07.2	VIS
CONS. NO 134	MONTH 8	MXSAMPD 01	WAVES 2 XX	WET B 06.6	STN 107
LAT 66-282N	DAY 31	NO.DPTH 5	WND-DIR 130	WW-CODE 02	
LON 122-020W	HR 23.0	W-COLOR	WND-FCE 04	CLD-TPE 7	
MARSD SQ 229	C/I 1804	W-TRNSP	BARO 999.3	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	PO4	-P-	NO2	NO3	SIO	PH
230	0000	0511										
230	0020	0490										
230	0025	0420										
230	0050	0400										
230	0084	0400										

‡DEPTH OF BOTTOM OBSERVATION GREATER THAN SOUNDING

REF-NO 002	YR 1964	DEPTH 77	WAVES 1 1322	AIR T 07.7	VIS
CURS. NO 135	MONTH 9	MXSAMPD 01	WAVES 2 00X0	WET B 07.2	STN 108
LAT 66-250N	DAY 01	NC-DPTH 4	WIND-DIR 180	SW-CODE 02	
LON 122-390W	HR 01.0	W-COLOR	WIND-FCE 02	CLD-TPE 7	
MARSD SQ 229	C/I 1804	W-TRNSP	BARO 998.3	CLD-AMT 8	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH 24	WAVES 1	XX	AIR T	VIS
CUNS. NO 136	MONTH 9	MXSAMPD 00	WAVES 2	XX	WET B	STN 109
LAT 66-307N	DAY 01	NO.DPTH 2	WND-DIR 130	WW-CODE		
LON 123-089W	HR 04.0	W-COLOR	WND-FCE 01	CLD-TPE		
MARSD SQ 229	C/I 1804	W-TRNSP	BARO	CLD-AMT		HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH 12	WAVES 1	XX	AIR 7	WIND 110
CONS. NO 137	MONTH 9	MXSAMPD 00	WAVES 2	XX	WET 8	WIND 110
LAT 66-311N	DAY 01	NO.DPTH 2	WNC-DIR 130	XX-CONF		
LUN 123-090W	HR 04.5	W-COLOR	WCL-FCE 01	CID-TPE		
MARSD QG 229	C/I 1804	W-TRNSP	BARO	CID-AMT		

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH 90	WAVES 1 2323	AIR T 15.5	VIS
CONS. NO 138	MONTH 9	MXSAMPD 00	WAVES 2 00X0	WET B 10.5	STN 032
LAT 66-297N	DAY 01	NO.DPTH 6	WNC-DIR 250	WW-CODE 02	
LOX 123-095W	HR 17.0	W-COLOR	WND-FCE 03	CLD-TPE 9	
MARSD SQ 229	C/I 1804	W-TRNSP	BARO 1002.3	CLD-AMT 6	HW

OBSERVED

[illegible]

C-REF-NO 002	YR 1964	DEPTH 90	WAVES 1 2522	AIR T 09.9	VIS 10.0
CONS. NO 139	MONTH 9	MXSAMPD 01	WAVES 2 00X0	WET B 08.3	STN 010
LAT 66-220N	DAY 01	NO.DPTH 7	WNC-DIR 250	WW-CGDE 02	
LOX 123-145W	HR 23.0	W-COLOR	WNU-FCE 03	CLD-TPE 7	
MARSD SQ 229	C/I 1804	W-TRNSP 11	BARO 1004.3	CLD-AMT 8	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH 68	WAVES 1 2721	AIR T 08.8	VIS
CONS. NO 140	MONTH 9	MXSAMPD 01	WAVES 2 00X0	WET B 08.3	STN 112
LAT 66-163N	DAY 02	NO.DPTH 4	WND-DIR 270	WW-CODE	
LON 121-430W	HR 16.0	W-COLOR	WND-FCE 02	CLD-TPE 6	
MARSD SQ 229	C/I 1804	W-TRNSP	BARO 1009.8	CLD-AMT 8	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH 79	WAVES 1 2721	AIR T 07.4	VIS
CONS. NO 141	MONTH 9	MXSAMPD 01	WAVES 2 XX	WET B 06.6	STN 113
LAT 66-101N	DAY 02	NO.DPTH 3	WNC-DIR 270	WW-CODE 01	
LON 121-067W	HR 18.0	W-COLOR	WNC-FCE 02	CLD-TPE 1	
MARSD SQ 229	C/I 1804	W-TRNSP	BARO	CLD-AMT 6	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH 150	WAVES 1 XX	AIR T 07.4	VIS
CUNS. NO 142	MONTH 9	MXSAMPD 01	WAVES 2 XX	WET B 06.6	STN 114
LAT 66-082N	DAY 02	NO.DPTH 5	WNC-DIR 270	WW-CODE 01	
LON 120-233W	HR 20.0	W-COLOR	WND-FCE 02	CLD-TPE 1	
MARSD SQ 229	C/I 1804	W-TRNSP	BARO 1010.3	CLD-AMT 6	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH 166	WAVES 1 2721	AIR T 06.6	VIS
CONS. NO 143	MONTH 9	MXSAMPD 01	WAVES 2 COXO	WET B 06.1	STN 115
LAT 66-062N	DAY 02	NO.DPTH 3	WND-DIR 270	WW-CODE 01	
LCN 119-510W	HR 22.0	W-COLOR	WND-FCE 02	CLD-TPE 8	
MARSD SQ 228	C/I 1804	W-TRNSP	BARO 1010.3	CLD-AMT 2	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH 201	WAVES 1 2721	AIR T 06.6	VIS
CONS. NO 144	MONTH 9	MXSAMPD 02	WAVES 2 XX	WET B 06.1	STN 116
LAT 66-042N	DAY 02	NO.DPTH 4	WND-DIR 270	WW-CODE 01	
LON 119-116W	HR 23.9	W-COLOR	WND-FCE 02	CLD-TPE 8	
MARSD SQ 228	C/I 1804	W-TRNSP	BARO 1010.3	CLD-AMT 1	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH 179	WAVES 1 2721	AIR T 05.5	VIS
CONS. NO 145	MONTH 9	MXSAMPD 02	WAVES 2 00X0	WET B 05.5	STN 117
LAT 66-040N	DAY 03	NO.DPTH 5	WND-DIR 270	WW-CODE 03	
LON 118-285W	HR 02.5	W-COLOR	WND-FCE 02	CLD-TPE 7	
MARSD SQ 228	C/I 1804	W-TRNSP	BARO 1011.3	CLD-AMT 5	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH	60	WAVES 1 COXO	AIR T 03.8	VIS
CONS. NO 146	MONTH 9	MXSAMPD	01	WAVES 2 OOXO	WET B 02.4	STN 055
LAT 66-028N	DAY 05	NO.DPTH	7	WND-DIR	WW-CODE	
LUN 118-008W	HR 19.0	W-COLOR		WND-FCE	CLD-TPE 7	
MARSD SQ 228	C/I 1804	W-TRNSP		BARO 1014.3	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	PO4	-P-	NO2	NO3	SIO	PH
190	0000	0598		943								
190	0005	0598										
190	0010	0593		932								
190	0020	0582										
190	0030	0582										
190	0040	0580		932								
190	0060	0544		927								

C-REF-NO 002	YR 1964	DEPTH 24	WAVES 1	XX	AIR T	VIS
CONS. NO 147	MONTH 9	MXSAMPD 00	WAVES 2	XX	WET B	SYN 119
LAT 66-238N	DAY 06	NO.DPTH 2	WND-DIR		WW-CODE	
LON 117-405W	HR 19.0	W-COLOR	WND-FCE		CLD-TPE	
MARSD QZ 228	C/I 1804	W-TRNSP	BARO		CLD-AMT	HW

O B S E R V E D

[illegible]

C-REF-NO 002	YR 1964	DEPTH	33	WAVES 1	XX	AIR T	VIS
CONS. NO 148	MONTH 9	MXSAMPD	00	WAVES 2	XX	WET B	STN 120
LAT 66-246N	DAY 06	NO.DPTH	2	WNC-DIR		WW-CODE	
LOX 117-412W	HR 21.0	W-COLOR		WNC-FCE		CLD-TPE	
MARSD SQ 228	C/I 1804	W-TRNSP		BARO		CLD-AMT	HW

O B S E R V E D

[illegible]

PART II

by

M V Radium Gilbert

(CODC Reference: 04-65-002)

FISHERIES RESEARCH BOARD OF CANADA

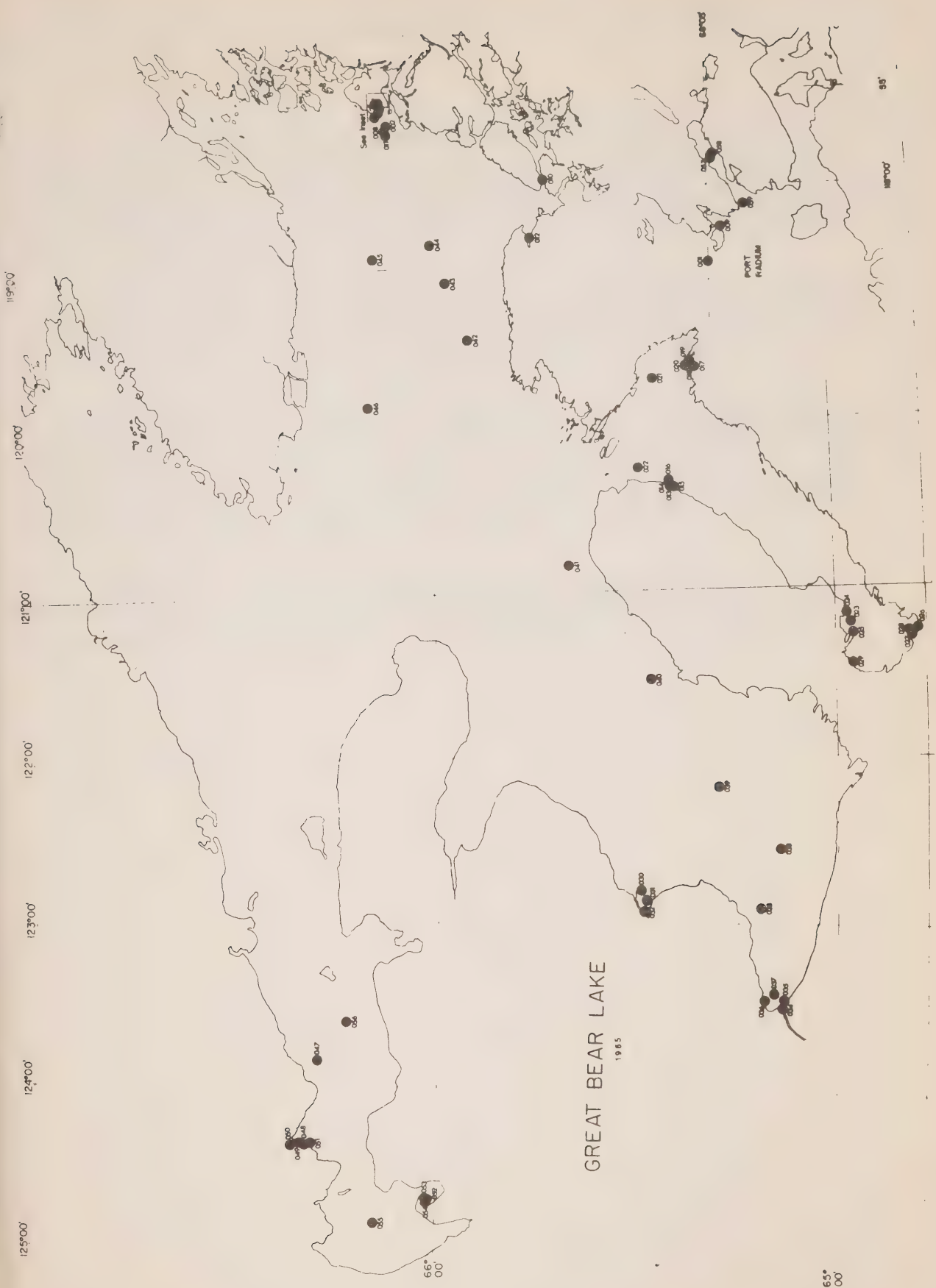
GREAT BEAR LAKE, N.W.T. - - 1965

Ship:	M. V. "Radium Gilbert"
Local Cruise Designation:	Gr Bear L., 1965
Period of Survey:	April 4-11, August 1-28, 1965
Observers:	L. Johnson
	C. W. Nicol (April)
	D. R. Curtis
	P. Mylechreest

ARCTIC BIOLOGICAL STATION, Ste. Anne de Bellevue, Quebec.

SECTION I

Description of data collection procedures



GREAT BEAR LAKE
1985

65° 00'

119° 00' 95'

PORT RADLUM

Sea Island

125° 00' 124° 00' 123° 00' 122° 00' 121° 00' 120° 00' 119° 00'

INTRODUCTION

The data included in the following pages results from the third year of a three-year program of limnological investigations on Great Bear Lake. The program was started in 1963; the data for 1963 have been published in Data Record No 13 of the 1964 Series, Great Bear Lake, N.W.T. - 1963, and the 1964 results appear in Part 1 of this Data Record.

The field season of 1965 is divided into two parts, the first occurring in April when a short visit was made to the lake to investigate conditions at the end of winter, and the second part was from 1st August to the 28th August.

The program was carried out by the Arctic Biological Station of the Fisheries Research Board of Canada, using the Northern Transportation Company's vessel M. V. "Radium Gilbert", a vessel of 270 tons and a length of 120 ft. The vessel was fitted with a gasoline/hydraulic oceanographic winch, a Kelvin-Hughes M. S. 29 echo sounder for limnological observations and a Sperry Mk. XV gyroscopic compass and Decca Radar for navigation.

Numbers on the accompanying chart refer to Station numbers, (a station may be occupied several times during the season) and not to the consecutive number which is the serial number of the observation.

SECTION 11

Description of the machine-generated data record

SEE SECTION II OF PART I

SECTION III

Serial oceanographic data

GENERAL INFORMATION

<u>Institute:</u>	Arctic Institute, Montreal.
<u>Observation platform:</u>	M. V. "Radium Gilbert".
<u>Vessel's cruising speed:</u>	8 knots
<u>Total number of stations occupied:</u>	47
<u>Anemometer height above sea level:</u>	5 metres.
<u>Barometer readings:</u>	Aneroid Barometer (corrected).
<u>Air temperature:</u>	Fixed Thermometer.
<u>Wet bulb temperature:</u>	Fixed Thermometer.
<u>Surface sea water temperature:</u>	Reversing Thermometer.

C-REF-NO 002	YR 1965	DEPTH	100	WAVES 1	XX	AIR T	VIS
CONS. NO 001	MONTH 4	MXSAMPD	01	WAVES 2	XX	WET B	STN 001
LAT 66-050N	DAY 08	NO.DPTH	6	WNC-DIR		WW-CODE	
CON 118-040W	HR 17.0	W-COLOR		WNC-FCE		CLD-TPE	
MARKS SQ 228	C/I 1804	W-TRNSP		BARO		CLD-AMT	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
170	0002	0000		1019		
179	0005	0003		1019		
197	0010	0005		1019		
202	0020	0004		994		
205	0050	0135		877		
210	0095	0216		870		

C-REF-NO 002	YR 1965	DEPTH 400	WAVES 1	XX	AIR T	VIS
CUNS. NO 002	MONTH 4	MXSAMPD 04	WAVES 2	XX	WET B	STN 008
LAT 66-040N	DAY 09	NO.DPTH 13	WNL-DIR		WW-CODE	
LEN 118-090W	HR 17.0	W-COLOR	WNL-FCE		CLD-TPE	
MARSD SG 228	C/I 1804	W-TRNSP	BARO		CLD-AMT	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
170	0002	0004		1009		
175	0005	0004		1027		
180	0010	0004		1006		
182	0020	0006				
185	0030	0018		984		
188	0050	0137				
190	0100	0291		901		
195	0150	0350				
200	0200	0353		883		
205	0250	0353		882		
210	0300	0351				
215	0350	0352		877		
220	0390	0352		882		

C-REF-NO 002	YR 1965	DEPTH 400	WAVES 1 COXO	AIR T 01.1	VIS
CONS. NO 003	MONTH 4	MXSAMPD 04	WAVES 2 XX	WET B	STN 008
LAT 66-040N	DAY 11	NO.DPTH 9	WNC-DIR CALM	WW-CODE	
LON 118-090W	HR 22.0	W-COLOR	WNC-FCE 00	CLD-TPE	
MARSD SQ 228	C/I 1804	W-TRNSP	BARO	CLD-AMT	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
*248	0050	0146				
*246	0075	0248				
*244	0100	0294				
*242	0125	0321				
*240	0150	0351				
235	0200	0353				
225	0300	0350				
220	0390	0350				
210	0390	0350				

*MULTIPLE CAST CONTINUED NEXT DAY

C-REF-NO 002	YR 1965	DEPTH	35	WAVES 1	XX	AIR T	VIS
CONS. NO 004	MONTH 6	MXSAMPD	00	WAVES 2	XX	WET B	STN 009
LAT 66-045N	DAY 29	NO.DPTH	5	WNC-DIR	160	WW-CCDE	
LON 118-030W	HR 20.0	W-COLOR		WND-FCE	03	CLD-TPE	9
MARSD SQ 228	C/I 1804	W-TRNSP		BARO		CLD-AMT	7 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
200	0000	0000				
205	0005	0155				
210	0010	0156				
215	0015	0161				
220	0029	0176				

C-REF-NO 002	YR 1965	DEPTH	430	WAVES 1 00X0	AIR T 11.1	VIS 0
CONS. NO 005	MONTH 8	MXSAMPD	04	WAVES 2 00X0	WET B 08.8	STN 011
LAT 66-040N	DAY 02	NO.DPTH	12	WND-DIR CALM	WW-CODE	
LGN 118-110W	HR 16.2	W-COLOR		WND-FCE 00	CLD-TPE 8	
MARSD SQ 228	C/I 1804	W-TRNSP	20	BARO 1003.3	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
162	0000	0275				
162	0010	0268				
162	0020	0264				
162	0050	0268				
170	0100	0266				
170	0150	0267				
170	0200	0355				
170	0250	0355				
180	0300	0353				
180	0350	0355				
180	0350	0354				
180	0400	0351				

C-REF-NO 002	YR 1965	DEPTH	2	WAVES 1 COXO	AIR T 06.6	VIS 9
CUNS. NO 006	MONTH 8	MXSAMPD	00	WAVES 2 COXO	WET B 06.1	STN 010
LAT 65-417N	DAY 04	NO.DPTH	1	WND-DIR CALM	WW-CODE	
LON 118-305W	HR 17.5	W-COLOR		WND-FCE 00	CLD-TPE 6	
MARSD SQ 228	C/I 1804	W-TRNSP		BARO 1009.3	CLD-AMT 2	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOLND
175	0000	0720				

C-REF-NO 002	YR 1965	DEPTH	9	WAVES 1 00X0	AIR T 10.5	VIS 9
CONS. NO 007	MONTH 8	MXSAMPD	00	WAVES 2 00X0	WET B 10.5	STN 013
LAT 65-242N	DAY 06	NO.DPTH	2	WND-DIR CALM	WW-CODE	
LON 120-220W	HR 01.5	W-COLOR		WND-FCE 00	CLD-TPE 7	
MARSD SQ 229	C/I 1804	W-TRNSP		BARO 1006.3	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
015	0000	0477				
015	0007	0477				

C-REF-NO 002	YR 1965	DEPTH	16	WAVES 1 COXO	AIR T 10.5	VIS
CUNS. NO 008	MONTH 8	MXSAMPD	00	WAVES 2 OOXO	WET B 10.5	STN 014
LAT 65-245N	DAY 06	NO.DPTH	2	WND-DIR CALM	WW-CODE	
LUN 120-210W	HR 02.0	W-COLOR		WND-FCE 00	CLD-TPE 7	
MARSD SQ 229	C/I 1804	W-TRNSP		BARO 1006.3	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND
020	0000	0643				
022	0016	0469				

C-REF-NO 002	YR 1965	CEPTH	5	WAVES 1	XX	AIR T	VIS
CONS. NO 009	MONTH 8	MXSAMPD	00	WAVES 2	XX	WET B	STN 016
LAT 65-240N	DAY 06	NO.DPTH	2	WND-DIR		WW-CODE	
LON 120-210W	HR 16.0	W-COLOR		WND-FCE		CLD-TPE	
MAKSD SQ 229	C/I 1804	W-TRNSP		BARO		CLD-AMT	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
160	0000	0733				
162	0005	0384				

C-REF-NO 002	YR 1965	DEPTH	2	WAVES 1 00X0	AIR T 14.5	VIS
CONS. NO 010	MONTH 8	MXSAMPD	00	WAVES 2 00X0	WET B 09.4	STN 017
LAT 65-195N	DAY 08	NO.DPTH	2	WNC-DIR 130	WW-CODE	
LON 119-395W	HR 19.5	W-COLOR		WNC-FCE 03	CLD-TPE 6	
MARSD SQ 228	C/I 1804	W-TRNSP		BARG 1009.3	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
195	0000	1079				
198	0002	1076				

C-REF-NC 002	YR 1965	DEPTH	6	WAVES 1	XX	AIR T	14.9	VIS
CENS. NO 011	MONTH 8	MXSAMPD	00	WAVES 2	COXO	WET B	09.4	STN 018
LAT 65-204N	DAY 08	NO.DPTH	2	WNC-DIR	130	WW-CODE		
LON 119-395W	HR 20.5	W-COLOR		WNC-FCE	03	CLD-TPE	6	
MARSD SQ 228	C/I 1804	W-TRNSP		BARC	1009.3	CLD-AMT	8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
205	0000	1065				
208	0006	1028				

C-REF-NO 002	YR 1965	DEPTH	6	WAVES 1 COXC	AIR T 14.9	VIS
CONS. NO 012	MONTH 8	MXSAMPD	00	WAVES 2 00X0	WET B 09.4	STN 019
LAT 65-203N	DAY 08	NO.DPTH	2	WNC-DIR 130	WW-CODE	
LON 119-375W	HR 21.5	W-COLOR		WNC-FCE 03	CLO-TPE 6	
MARSD SQ 228	C/I 1804	W-TRNSP		BARO 1009.3	CLO-AMT 8	Hw

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
215	0000	1051				
218	0006	1028				

C-REF-NO 002 YR 1965 DEPTH 120 WAVES 1 31X1 AIR T 11.1 VIS
 CONS. NO 013 MONTH 8 MXSAMPD 01 WAVES 2 XX WET B 08.8 STN 022
 LAT 65-287N DAY 09 NO.DPTH 6 WNL-DIR 310 WW-CODE
 LGN 120-180W HR 00.5 W-COLOR WNC-FCE 02 CLD-TPE 8
 MARSD SQ 229 C/I 1804 W-TRNSP BARG 1007.3 CLD-AMT 1 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
005	0000	0531		958		
005	0005	0516		972		
005	0010	0511		959		
010	0050	0419		959		
010	0100	0411		969		
010	0120	0406		953		

C-REF-NO 002	YR 1965	DEPTH	32	WAVES 1 31X1	AIR T 11.1	VIS
CONS. NO 014	MONTH 8	MXSAMPD	00	WAVES 2 XX	WET B 09.9	STN 021
LAT 65-260N	DAY 09	NO.DPTH	2	WND-DIR 310	WW-CODE	
LON 119-435W	HR 21.0	W-COLOR		WND-FCE 02	CLD-TPE 8	
MARSD SQ 228	C/I 1804	W-TRNSP	09	BAKO 1007.3	CLD-AMT 1	Hw

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
210	0000	1000				
210	0032	0581				

C-REF-NO 002	YR 1965	DEPTH	13	WAVES 1 0422	AIR T 20.5	VIS
CONS. NO 015	MONTH 8	MXSAMPD	00	WAVES 2 00X0	WET B 15.5	STN 023
LAT 64-577N	DAY 11	NO.DPTH	2	WNC-DIR 040	WW-CODE	
LCN 121-125W	HR 01.5	W-COLOR		WNC-FCE 02	CLD-TPE	1
MARSD SQ 229	C/I 1804	W-TRNSP		BARO 993.3	CLD-AMT	1

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
015	0000	1238				
015	0013	0860				

C-REF-NO 002	YR 1965	DEPTH	2	WAVES 1	0422	AIR T	20.5	VIS	
CONS. NO 016	MONTH 8	MXSAMPD	00	WAVES 2	XX	WET B	15.5	STN	024
LAT 64-583N	DAY 11	NO. DPTH	1	WNC-DIR	040	HW-CODE			
LUN 121-090W	HR 02.0	W-COLOR		WNC-FCE	02	CLD-TPE	1		
MARSD SQ 229	C/I 1804	W-TRNSP		BARO	993.3	CLD-AMT	7	HW	

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
020	0000	1276				

C-REF-NO 002	YR 1965	DEPTH	1	WAVES 1 3122	AIR T 15.5	VIS
CONS. NO 017	MONTH 8	MXSAMPD	00	WAVES 2 XX	WET B 14.9	STN 026
LAT 64-477N	DAY 11	NO.DPTH	1	WNC-DIR 310	WW-CODE 61	
LON 121-145W	HR 04.0	W-COLOR		WND-FCE 02	CLD-TPE 6	
MARSD SQ 229	C/I 1804	W-TRNSP		BAKO 987.3	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	CXYGEN	SGMT	SOUND
040	0000	1500				

C-REF-NO 002	YR 1965	DEPTH	2	WAVES 1	3122	AIR T	15.5	VIS
C-AS. NO 018	MONTH 8	MXSAMPD	00	WAVES 2	XX	WET B	14.9	STN 027
LAT 34-487N	DAY 12	NO.DPTH	1	WND-DIR	310	WV-CODE	61	
LON 121-178W	HR 04.5	W-COLOR		WND-FCE	02	CLO-TPE	6	
MARSD SQ 229	C/I 1804	W-TRNSP		BARO	997.3	CLO-AMT	8	HW

O B S E R V E D

GMT	DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND
045	0000	1526				

C-REF-NO 002	YR 1965	DEPTH	6	WAVES 1	3122	AIR T	VIS
CUNS. NO 019	MONTH 8	MXSAMPD	00	WAVES 2	XX	WET B	STN 028
LAT 64-493N	DAY 12	NO.DPTH	1	WND-DIR	310	WW-CODE	
LON 121-160W	HR 05.0	W-COLOR		WND-FCE	08	CLD-TPE	6
MARSD SQ 229	C/I 1804	W-TRNSP		BARO	987.3	CLD-AMT	8 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
050	0006	1496				

C-REF-NO 002	YR 1965	DEPTH	3	WAVES 1	31X1	AIR T	11.6	VIS
CONS. NO 020	MONTH 8	MXSAMPD	00	WAVES 2	XX	WET B	08.8	STN 029
LAT 64-576N	DAY 14	NO.DPTH	1	WND-DIR	310	WW-CODE		
LON 121-270W	HR 00.1	W-COLOR		WND-FCE	06	CLD-TPE	6	
MARSD SQ 229	C/I 1804	W-TRNSP		BARO	1004.3	CLD-AMT	2	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	CXYGEN	SGMT	SOUND
001	0000	1055				

C-REF-NO 002	YR 1965	DEPTH	5	WAVES 1 00X0	AIR T 10.5	VIS
CONS. NO 021	MONTH 8	MXSAMPD	00	WAVES 2 XX	WET B 10.5	STN 030
LAT 65-294N	DAY 17	NO.DPTH	2	WND-DIR CALM	WW-CODE	
LON 122-470W	HR 15.0	W-COLOR		WND-FCE 00	CLD-TPE 7	
MARSD SQ 229	C/I 1804	W-TRNSP		BARO 1004.3	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
150	0000	0493				
152	0005	0466				

C-REF-NO 002	YR 1965	DEPTH	30	WAVES 1	COXO	AIR T	10.5	VIS
CONS. NO 022	MONTH 8	MXSAMPD	00	WAVES 2	XX	WET B	10.5	STN 031
LAT 65-297N	DAY 17	NO.DPTH	2	WNC-DIR	CALM	WW-CODE		
LON 122-515W	HR 15.5	W-COLOR		WNC-FCE	00	CLD-TPE	7	
MARSD SQ 229	C/I 1804	W-TRNSP		BARO	1004.3	CLD-AMT	8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
155	0000	0531				
157	0030	0432				

C-REF-NO 002	YR 1965	DEPTH	5	WAVES 1 COXC	AIR T 10.5	VIS
CONS. NO 023	MONTH 8	MXSAMPD	00	WAVES 2 COXO	WET B 10.5	STN 032
LAT 65-290N	DAY 17	NO.DPTH	1	WNC-DIR CALM	WW-CODE 02	
LON 122-555W	HR 16.0	W-COLOR		WNC-FCE 00	CLD-TPE 7	
MARSD SQ 229	C/I 1804	W-TRNSP		BARO 1004.3	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
160	0000	0601				

C-REF-NO 002	YR 1965	DEPTH		WAVES 1 COXO	AIR T 11.1	VIS
CONS. NO 024	MONTH 8	MXSAMPD	01	WAVES 2 COXO	WET B 09.4	STN 033
LAT 65-088N	DAY 19	NO.DPTH	3	WNC-DIR 180	WW-CODE	
LON 122-330W	HR 19.0	W-COLOR		WND-FCE	CLD-TPE	
MARSD SQ 229	C/I 1804	W-TRNSP	15	BARO 1015.3	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
190	0000	0355				
192	0020	0351				
195	0100	0386				

C-REF-NO 002	YR 1965	DEPTH	3	WAVES 1 0421	AIR T 04.4	VIS
CONS. NO 025	MONTH 8	MXSAMPD	00	WAVES 2 00X0	WET B 04.4	STN 035
LAT 65-080N	DAY 20	NO.DPTH	1	WNC-DIR 040	WW-CODE	
LON 123-270W	HR 03.0	W-COLOR		WNC-FCE 02	CLD-TPE	
MARSD SQ 229	C/I 1804	W-TRNSP		BARO 1014.3	CLD-AMT 0	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
030	0000	0763				

C-REF-NO 002	YR 1965	DEPTH	2	WAVES 1	XX	AIR T	04.4	VIS
CONS. NO 026	MONTH 8	MXSAMPD	00	WAVES 2	XX	WET B	04.4	STN 036
LAT 65-108N	DAY 20	NO.DPTH	1	WND-DIR	040	WW-CODE		
LON 123-275W	HR 03.5	W-COLOR		WNC-FCE	02	CLD-TPE		
MARSD SQ 229	C/I 1804	W-TRNSP		BARO	1014.3	CLD-AMT	0	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
035	0002	0714				

C-REF-NO 002	YR 1965	DEPTH		WAVES 1 C421	AIR 1 C4.4	VIS
CONS. NO 027	MONTH 8	MXSAMPD	00	WAVES 2 C0X0	WET B 04.4	STN 037
LAT 65-095N	DAY 20	NO.DPTH	1	WNC-DIR 040	WW-CODE	
LON 123-250W	HR 05.0	W-COLOR		WNC-FCE 02	CLD-TPE	
MARSD SQ 229	C/I 1804	W-TRNSP		BARO 1014.3	CLD-AMT	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
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050	0000	0647				
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C-REF-NO 002	YR 1965	DEPTH	2	WAVES 1 1622	AIR T 14.4	VIS
CONS. NO 028	MONTH 8	MXSAMPD	00	WAVES 2 00X0	WET B 12.2	STN 034
LAT 65-082N	DAY 20	NO.DPTH	1	WND-DIR 160	WW-CODE	
LON 123-300W	HR 19.5	W-COLOR		WND-FCE 07	CLD-TPE	
MARSD SQ 229	C/I 1804	W-TRNSP		BARO 1010.8	CLD-AMT 0	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
195	0000	0840				

C-REF-NO 002	YR 1965	DEPTH	77	WAVES 1 COXO	AIR T 14.4	VIS
CONS. NO 029	MONTH 8	MXSAMPD	00	WAVES 2 0021	WET B 12.2	STN 038
LAT 65-115N	DAY 22	NO.DPTH	1	WNC-DIR 310	WW-CODE	
LON 122-543W	HR 19.0	W-COLOR		WNC-FCE 01	CLD-TPE 6	
MARSD SQ 229	C/I 1804	W-TRNSP		BARO 1018.3	CLD-AMT 4	Hw

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
190	0000	0450				

C-REF-NO 002	YR 1965	DEPTH	81	WAVES 1	COXC	AIR T	11.6	VIS
CONS. NO 030	MONTH 8	MXSAMPD	00	WAVES 2	XX	WET B	10.5	STN 039
LAT 65-178N	DAY 22	NO.DPTH	1	WND-DIR	CALM	WW-CODE		
LON 122-105W	HR 22.0	W-COLOR		WND-FCE	00	CLD-TPE	1	
MARSD SQ 229	C/I 1804	W-TRNSP		BARO	1018.3	CLD-AMT	3	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
220	0000	0720				

C-REF-NC 002	YR 1965	DEPTH	55	WAVES 1	COXO	AIR 1	VIS
CONS. NO 031	MONTH 8	MXSAMPD	00	WAVES 2	COXO	WET B	STN 040
LAT 65-276N	DAY 23	NO.DPTH	1	WNC-DIR	CALM	WW-CODE	
LON 121-320W	HR 01.0	W-COLOR		WNC-FCE	00	CLD-TPE	2
MARSD SQ 229	CVI 1804	W-TRASP		BARO	1018.3	CLD-AMT	3 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
010	0000	0600				

C-REF-NO 002	YR 1965	DEPTH	110	WAVES 1	XX	AIR T	06.6	VIS
CONS. NO 032	MONTH 8	MXSAMPD	00	WAVES 2	XX	WET B	06.1	STN 041
LAT 65-395N	DAY 23	NO.DPTH	1	WNC-DIR		WW-CODE		
LON 120-500W	HR 04.5	W-COLOR		WND-FCE		CLD-TPE	6	
MARSD SQ 229	C/I 1804	W-TRNSP		BARO 1017.3		CLD-AMT	2	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
045	0000	0300				

C-REF-NO 002	YR 1965	DEPTH	73	WAVES 1 00X0	AIR T	05.5	VIS
CONS. NO 033	MONTH 8	MXSAMPD	00	WAVES 2 00X0	WET 8	05.5	STN 042
LAT 65-534N	DAY 23	NO.DPTH	1	WND-DIR CALM	WW-CODE		
LUN 119-270W	HR 10.5	W-COLOR		WND-FCE 00	CLD-TPE	7	
MARSD SQ 228	C/I 1804	W-TRNSP		BARO 1017.3	CLD-AMT	5	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
105	0000	0400				

C-REF-NO 002	YR 1965	DEPTH	97	WAVES 1 00X0	AIR T 04.4	VIS
CONS. NO 034	MONTH 8	MXSAMPD	00	WAVES 2 3121	WET B 04.4	STN 043
LAT 65-563N	DAY 23	NO.DPTH	1	WNC-DIR CALM	WW-CODE	
LON 119-060W	HR 12.0	W-COLOR		WND-FCE 00	CLD-TPE 7	
MARSD SQ 228	C/I 1804	W-TRNSP		BARO 1017.3	CLD-AMT 6	Hw

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
120	0000	0320				

C-REF-NO 002	YR 1965	DEPTH 121	WAVES 1 COXO	AIR T 04.4	VIS
CONS. NO 035	MONTH 8	MXSAMPD 00	WAVES 2 3121	WET B 04.4	STN 044
LAT 65-583N	DAY 23	NO.DPTH 1	WNC-DIR	WW-CODE	
LON 118-510W	HR 13.0	W-COLOR	WND-FCE 01	CLO-TPE 4	
MARSD SQ 228	C/I 1804	W-TRNSP	BARO 1017.3	CLO-AMT 5	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
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130	0000	0350				
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C-REF-NC 002	YR 1965	DEPTH	430	WAVES 1	XX	AIR T	07.2	VIS
CONS. NO 036	MONTH 8	MXSAMPD	03	WAVES 2	XX	WET B	06.6	STN 011
LAT 66-040N	DAY 23	NO.DPTH	7	WNC-DIR	040	WW-CODE		
LON 118-110W	HR 20.0	W-COLOR		WNC-FCE	01	CLD-TPE		
MARSD SQ 228	C/I 1804	W-TRNSP	23	BARO	1016.3	CLD-AMT		Hw

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
200	0000	0354				
200	0049	0342				
200	0099	0341				
200	0148	0343				
210	0246	0342				
210	0295	0343				
220	0295	0342				

C-REF-NO 002	YR 1965	DEPTH 263	WAVES 1	X0	AIR T 07.2	VIS
CONS. NO 037	MONTH 8	MXSAMPD 00	WAVES 2	X0	WET B 05.5	STN 045
LAT 66-070N	DAY 24	NO.DPTH 1	WND-DIR 090	WW-CODE		
LON 118-565W	HR 22.0	W-COLOR	WND-FCE 02	CLD-TPE 8		
MARSD SQ 228	C/I 1804	W-TRNSP	BARO 1007.3	CLD-AMT 1	HW	

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
220	0000	0340				

C-REF-NO 002	YR 1965	DEPTH		WAVES 1 C921	AIR T 12.2	VIS
CONS. NO 038	MONTH 8	MXSAMPD	00	WAVES 2 XX	WET B	STN 046
LAT 66-090N	DAY 25	NC.DPTH	1	WNC-DIR 090	WW-CODE	
LON 119-510W	HR 01.0	W-COLOR		WNC-FCE 02	CLD-TPE 8	
MARSD SQ 229	C/I 1804	W-TRNSP		BARO 1007.3	CLD-AMT 1	HR

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
010	0000	0350				

C-REF-NO 002	YR 1965	DEPTH	38	WAVES 1	XX	AIR T	06.6	VIS
CONS. NO 039	MONTH 8	MXSAMPD	00	WAVES 2	XX	WET B		STN 047
LAT 66-181N	DAY 25	NO.DPTH	1	WNC-DIR	040	WW-CODE		
LON 123-500W	HR 13.5	W-COLOR		WNC-FCE	04	CLD-TPE	6	
MARSD SQ 229	C/I 1804	W-TRNSP		BARO	1007.3	CLD-AMT	6	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
135	0000	0550				

C-REF-NC 002	YR 1965	DEPTH	2	WAVES 1	COXC	AIR T 17.5	VIS
CONS. NO 040	MONTH 8	MXSAMPD	00	WAVES 2	COXC	WET B	STN 048
LAT 66-197N	DAY 25	NO.DPTH	1	WND-DIR	040	WW-CODE	
LON 124-215W	HR 17.0	W-COLOR		WND-FCE	06	CLD-TPE	0
MARSD SQ 229	C/I 1804	W-TRNSP		BARO	1009.8	CLD-AMT	5 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
170	0000	0907				

C-REF-NO 002	YR 1985	DEPTH	3	WAVES 1 0421	AIR T 17.5	VIS
CUNS. NO 041	MONTH 8	MXSAMPD	00	WAVES 2 00X0	WET B	SIN 049
LAT 66-203N	DAY 25	NO. OFTH	1	WNC-DIR 040	WW-CODE	
LUN 124-210W	HR 17.5	W-COLOR		WWD-FCE 06	CLD-TPE 0	
MARSD SQ 229	C/I 1804	W-TANSP		BARO 1009.8	CLD-AMT 5	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
175	0003	0063				

C-REF-NO 002	YR 1965	DEPTH	2	WAVES 1 0421	AIR T 17.5	VIS
CONS. NO 042	MONTH 8	MXSAMPD	00	WAVES 2 00X0	WET B	STN 050
LAT 66-217N	DAY 25	NO.DPTH	1	WNC-DIR 040	WW-CODE	
LUN 124-215W	HR 18.0	W-COLOR		WNC-FCE 06	CLD-TPE	
MARSD SQ 229	C/I 1804	W-TRNSP		BARO 1009.8	CLD-AMT	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
180	0000	1152				

C-REF-NO 002	YR 1965	DEPTH	16	WAVES 1 C421	AIR T 17.2	VIS
CONS. NO 043	MONTH 8	MXSAMPD	00	WAVES 2 XX	WET B	STN 051
LAT 66-186N	DAY 26	NO.DPTH	4	WND-DIR 040	WW-CODE	
LON 124-210W	HR 01.5	W-COLOR		WND-FCE 06	CLD-TPE 7	
MARSD SQ 229	C/I 1804	W-TRNSP	09	BARO 1007.3	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
015	0000	0664				
017	0005	0664				
020	0010	0663				
021	0016	0661				

C-REF-NO 002	YR 1965	DEPTH	5	WAVES 1	XX	AIR T	VIS
CONS. NO 044	MONTH 8	MXSAMPD	00	WAVES 2	XX	WET B	STN 052
LAT 66-010N	DAY 27	NO.DPTH	2	WND-DIR		WW-CODE	
LON 124-400W	HR 01.0	W-COLOR		WND-FCE		CLD-TPE	
MARSD SQ 229	C/I 1804	W-TRNSP	04	BARO		CLD-AMT	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
010	0000	1095				
015	0005	1048				

C-REF-NO 002	YR 1965	DEPTH	7	WAVES 1	XX	AIR T	VIS
CONS. NO 045	MONTH 8	MXSAMPD	CO	WAVES 2	XX	WET B	STN 053
LAT 66-015N	DAY 27	NO.DPTH	2	WND-DIR		WW-CODE	
LON 124-393W	HR 02.0	W-COLOR		WND-FCE		CLD-TPE	
MARSD SQ 229	C/I 1804	W-TRNSP		EARO		CLD-AMT	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
020	0000	1095				
025	0007	0976				

C-REF-NO 002	YR 1965	DEPTH	29	WAVES 1 00X0	AIR T 11.6	VIS
CONS. NO 046	MONTH 8	MXSAMPD	00	WAVES 2 0421	WET B 09.9	STN 055
LAT 66-091N	DAY 27	NO.DPTH	4	WND-DIR CALM	WW-CODE	
LON 124-495W	HR 18.5	W-COLOR		WND-FCE 00	CLD-TPE 3	
MARSD SQ 229	C/I 1804	W-TRNSP	07	BARO 1010.8	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
185	0000	0828				
187	0005	0813				
190	0010	0810				
192	0028	0720				

C-REF-NO 002	YR 1965	DEPTH 46	WAVES 1 2720	AIR T 06.6	VIS
CONS. NO 047	MONTH 8	MXSAMPD 00	WAVES 2 XX	WET B 06.1	STN 056
LAT 66-137N	DAY 28	NO.DPTH 4	WND-DIR 270	WW-CODE	
LON 123-375W	HR 17.7	W-COLOR	WND-FCE 01	CLD-TPE 7	
MAKSD SQ 229	C/I 1804	W-TRNSP 08	BAKO 1015.3	CLD-AMT 9	FW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
177	0000	0659				
180	0010	0649				
185	0020	0575				
190	0045	0525				

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